

*Digital Surveillance Solution*

# HY DVR User Manual



Revised in Nov.2008



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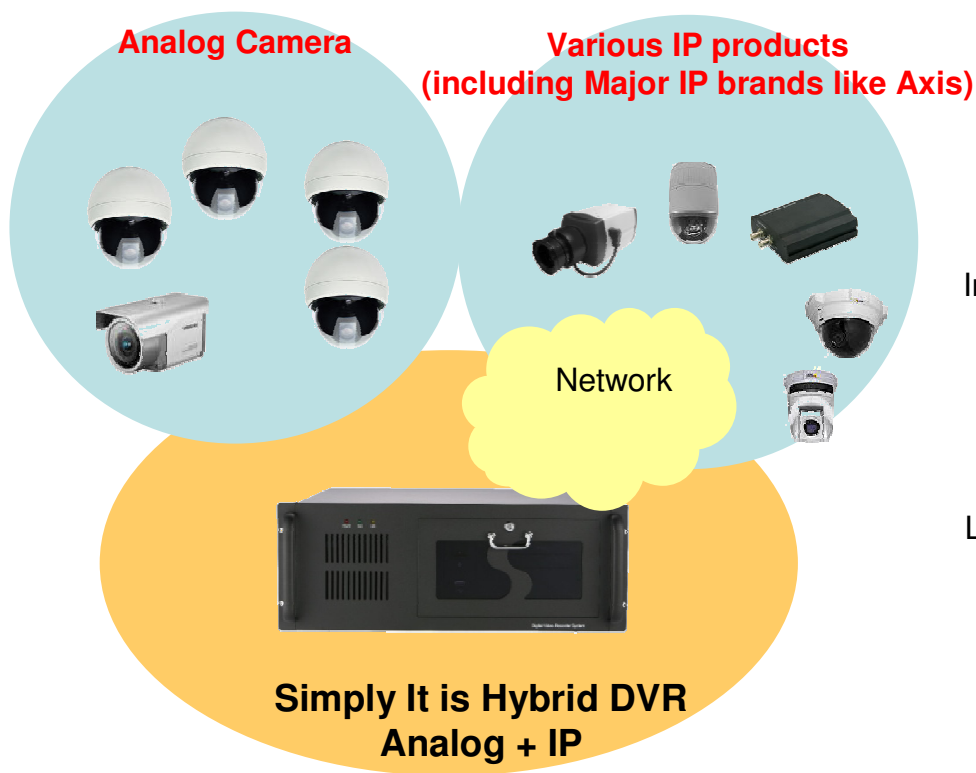


# Content

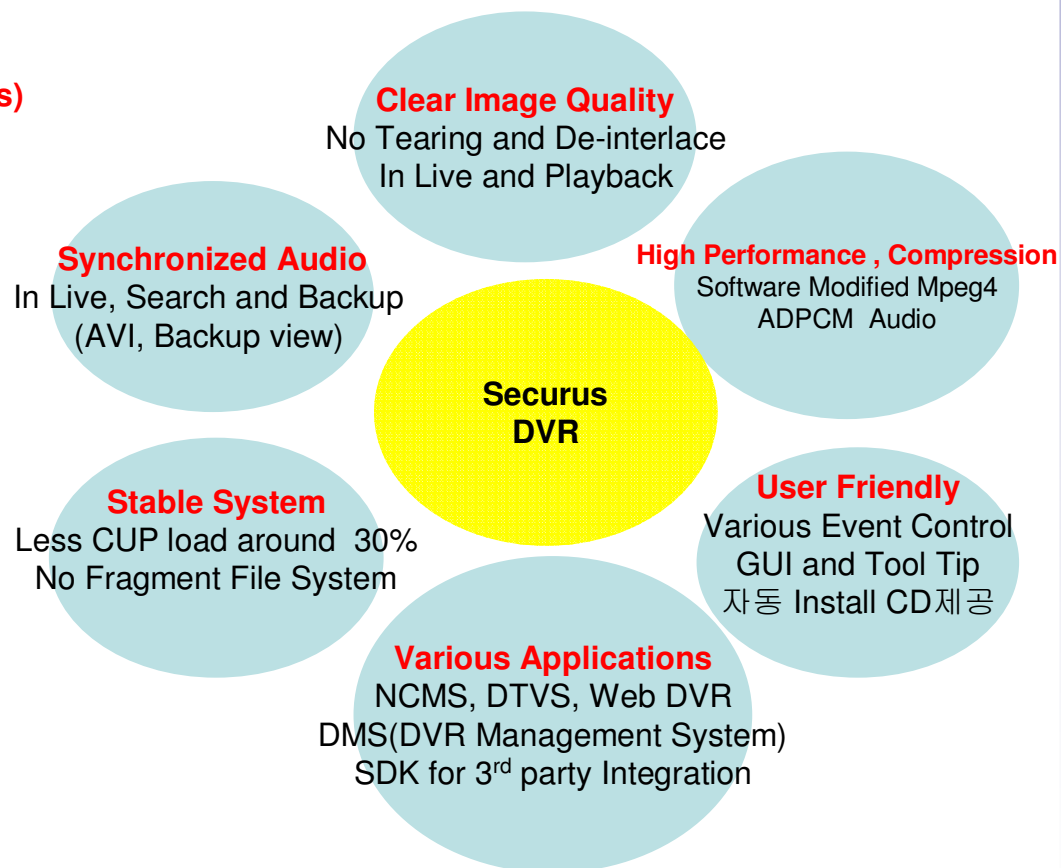
[illegible]

### Major feature of Securus Hybrid DVR

Differences between ordinary PC DVR and Securus PC DVR







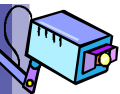
Major Features of Securus PC DVR




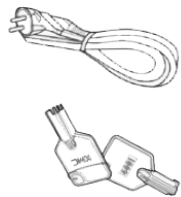


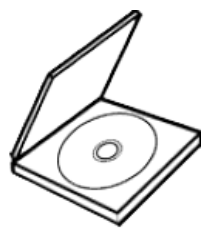

### Applied Areas

Not only Recoding through Analogue data but also using powerful Network and IP Functions, users can apply this to various sites like below.

Applied Areas for Securus Hybrid DVR			
	Parking Lot, Building Management, Unattended Controlling Center, Factory Line Surveillance Access Control, etc		Chain Store, Convenient Shop, Super Market, Big restaurant점, Gas Station.  * Can integrate with POS (Point of Sales)
	IBM, Apartment Management, , etc		Bank, Automatic Devices , Public and GOV building and project  * Can integrate with ATM (Auto Teller Machine in Bank)
Mobile Surveillance	PDA , Smart phone Viewer		



### DVR Set Components

<p>DVR System (1SET)</p> 	<p>Power Cable / KEY</p> 
<p>User Manual</p> 	<p>Screws</p> 
<p>Installation CD</p> <ul style="list-style-type: none"><li>-Manual</li><li>-Driver</li><li>-Setup S/W</li><li>-Others</li></ul> 	<p>Keyboard/ Mouse</p> 
<p>OS License Level( Windows XP or 2000 ) Others components( Different according to System)</p>	

### Board Specification

Video/Audio/Alarm		HYR1216	HYR1216	HYC1216	HYC2416	HYR4816	HYC2432	HYR4832 2
Signal System		NTSC/PAL						
Video Input	Total	16	16	20	20	20	36	36
	Analog	Max 16	Max 16	Max 16	Max 16	Max 16	Max 32	Max 32
	IP	Max 4	Max 4	Max 4	Max 4	Max 4	Max 4	Max 4
Monitor Output	VGA	VGA						
	General(TV Out) Composite	1 Port (sequence only)	1 Port (sequence only)	1 Port (sequence only)	1 Port (sequence only)	1 Port (sequence only)	4 Port (sequence only)	4 Port (sequence only)
	Option(4ch TV-Out) Composite	4 Port (sequence only)	4 Port (sequence only)	4 Port (sequence only)	4 Port (sequence only)	4 Port (sequence only)	-	-
Loop-Out								
Screen Division		1,4,6,9,10,16,21,25,36,Channel Switching(Manual/Auto),Full Screen						
Resolution (NTSC/ PAL)		352x240/352x288, 704x240/704x288, 704x480/704x576				360x240/360x288,720x240/720x288, 720x480/720x576		
Audio(Default/Option)		2/16				16/16	16/32	
Alarm	Input (Default/Option)	4/16 Port						
	Output	4 Port						
Available IP Products		SNT/ Axis/ Vivotek/JVC/Canon/Panasonic/Sony (others can be added on demand)						

### System Configuration

#### Analog Camera



Max 32CH

#### Securus DVR

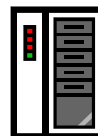


#### IP Cameras or Video Server

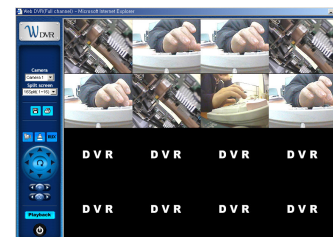


Max 8CH  
Now Available  
Our Own + Vivotek + Axis

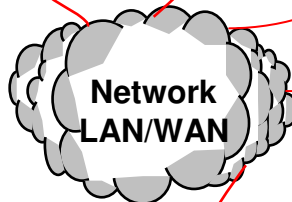
#### (Option) Storage Server (NAS or DAS)



PDA Viewer (in Wireless LAN)



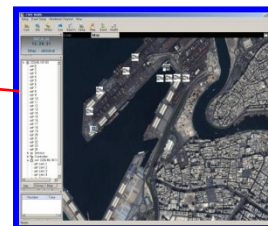
Web DVR (Support Dynamic IP)  
Remote Live/Search/PTZ Control



Network  
LAN/WAN



Remote Client (NCMS Lite)  
Remote Live/Search/Setup  
/Simultaneous Multi DVRs connection



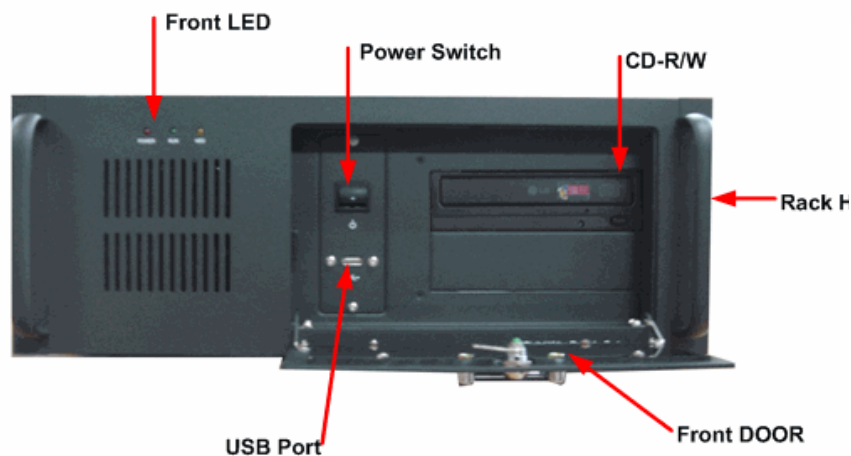
Remote Client  
(NCMS Pro)  
  
Plus  
E-Map/Event Scenario  
/Health Checking  
(Option)

Analog —

IP (TCP/IP) —

### System Description and External Parts Connection

1. Connect External Parts with DVR (Camera, monitor, K/B, mouse, etc)

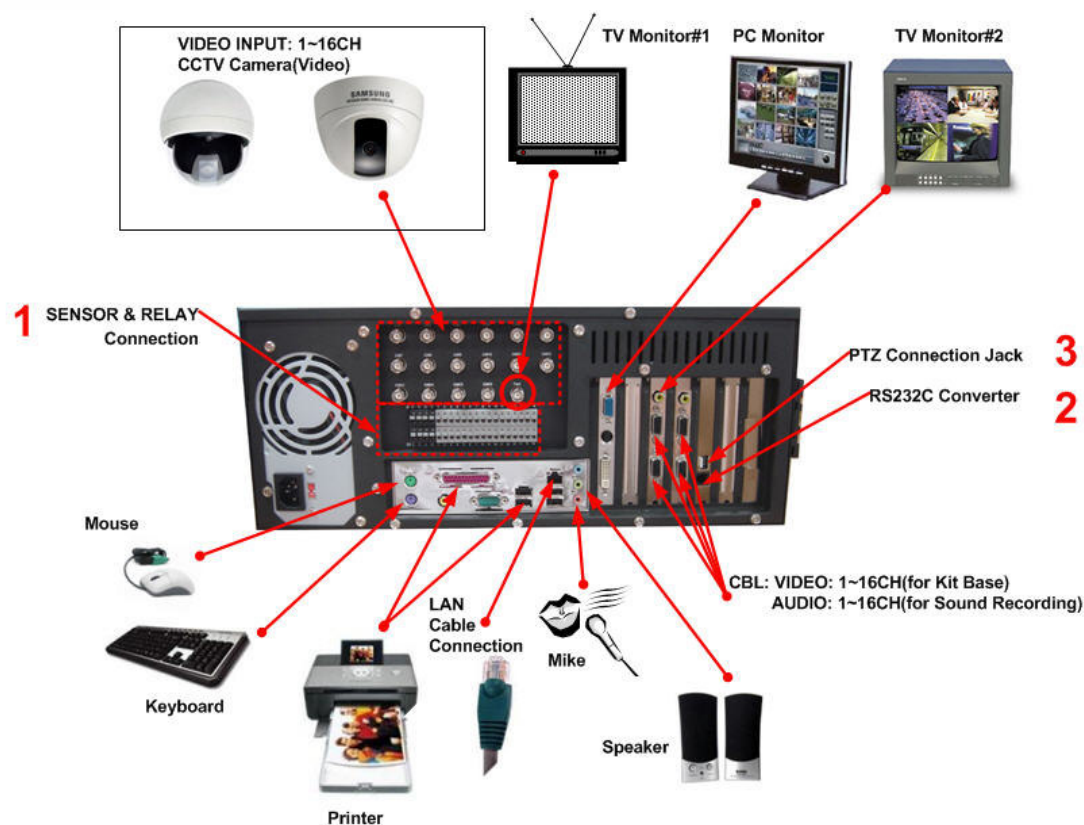


2. Power Connection

<NB> Before power connection, please check <110Vac/ or 220Vac>.

3. Power on Front Panel

4. Check DVR is running rightly.





### Live Monitoring View

Live View Window

TDS , Live Audio,  
Image Control and  
ETC



Login

DVR setup

Recording Data Search

P/T/Z control

Camera & Alarm  
Information

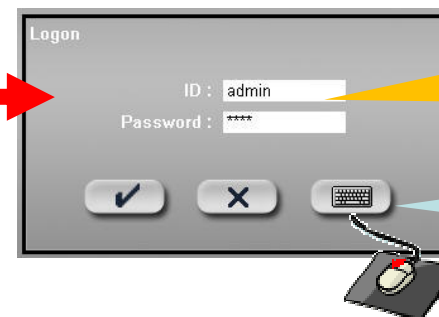
Screen Division

Exit DVR

Live Audio and Network  
Status



### Log In/Log Out



**Default Account**

**ID: admin  
Password: 1111**

**Virtual Keyboard**



<N.B > Factory Default account is for administrator.

So we recommend to setup new <account and password> in "Setup" => "User" and delete default account  
(To delete default <admin> account, must setup new account as <Administrator >)

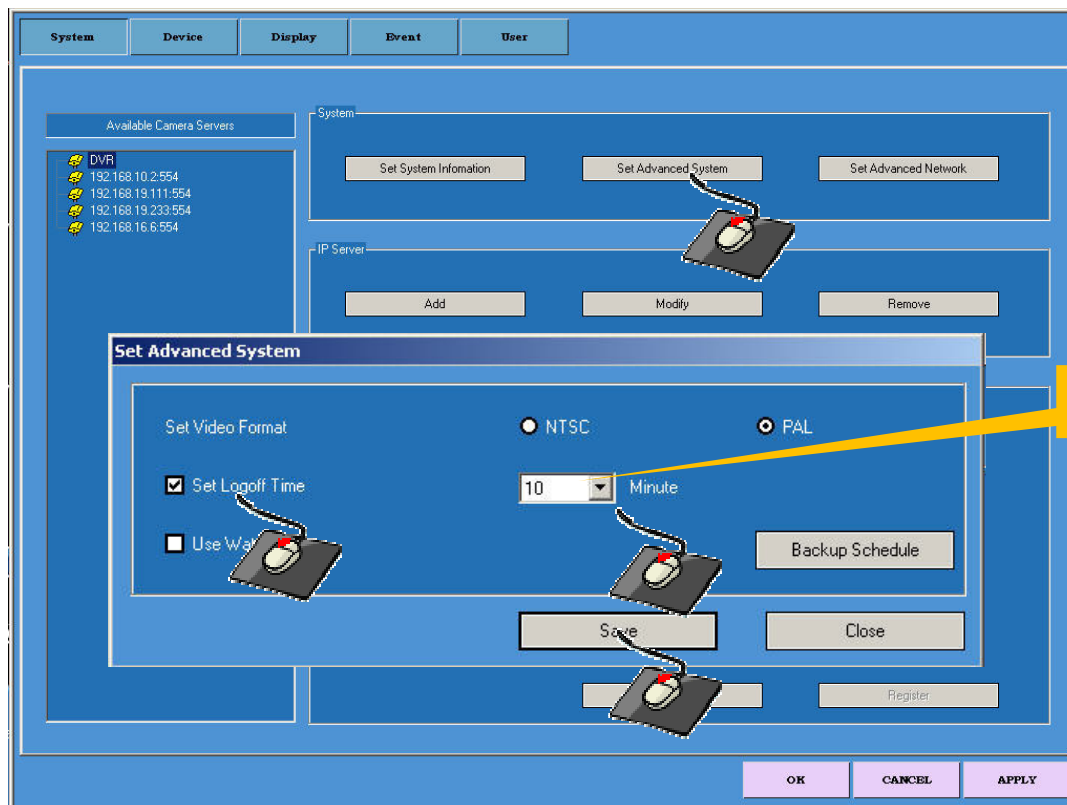
### Automatic Log-out



Go to <Setting => System=> Set advance system>

When setup <Log Out Time>, users log out automatically after setup <log-out> time.

(This applies only there is no operation in <Live Monitoring Window> during setup <log-out> time.)



Logout Time

<N.B > When this <Log-Out> time is not <check-in>, users can operate DVR without more <Log-In>. But this means user have to click <Log-In> Icon to <Log-out> again.

### Control <Live View Screen>

Users can manage <Live View Screen> just by <Drag & Drop>

The diagram illustrates the control of the Live View Screen through drag-and-drop actions. It shows three states of the interface:

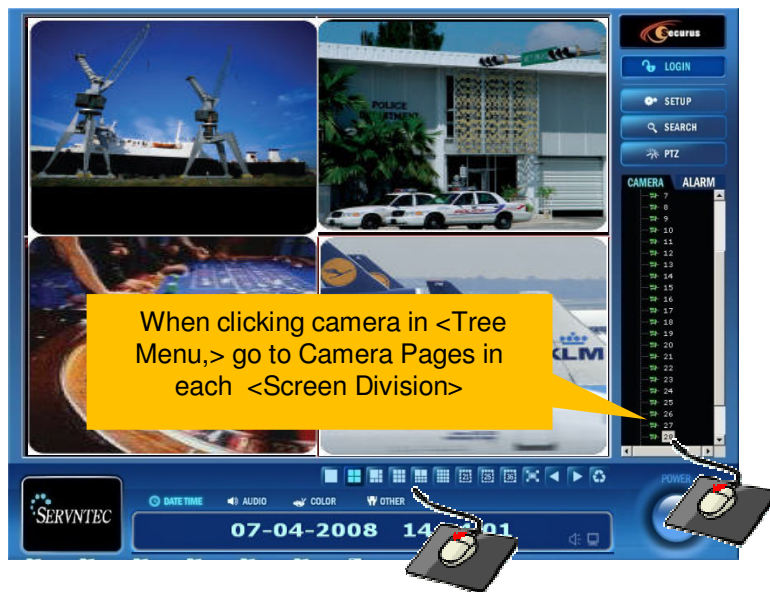
- Initial State (Left):** A 4-camera view with a mouse cursor over one of the camera thumbnails.
- Full Screen State (Top Right):** A single camera view (Police Station) with a mouse cursor over the thumbnail.
- 4-CH Screen State (Bottom Right):** A 4-camera view with a different arrangement of thumbnails.

Arrows and callouts indicate the following actions:

- Just double Click Change to Full Screen:** A red arrow points from the top-left camera thumbnail in the 4-camera view to the Police Station camera thumbnail in the Full Screen view.
- Just double Click Change to 4 CH Screen(previous Screen):** A green arrow points from the Police Station camera thumbnail in the Full Screen view back to the top-left camera thumbnail in the 4-camera view.
- To change Cameras on screen, just <Drag & Drop> by Mouse:** A yellow arrow points from the bottom-right camera thumbnail in the 4-camera view to the bottom-right camera thumbnail in the 4-CH Screen view.

### Control <Live View Screen Division>

#### Various Screen Division and Easy Control



Function	Button
Screen Division	
Full Screen	
Manual Page Change	
Automatic Page Change	

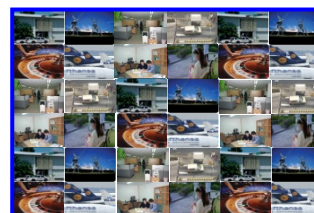
#### Page Change (Go to Next Cameras in 4CH Division)



1 CH



4 CH



36CH





### Setup <Initial Screen Display> (Default Screen)

SETUP

Go to <Setup => Display=> Default Screen>

To show< Full Screen> in Initial <Live View Screen> , please check in this box

Setup <Initial Live View Screen Display Division>

System Device Display Event User

Display

Default Screen

☒ Use Full Screen 16 Split 1 Second

Display Text

☒ Use Display Text Set TV Out

Display Layout

Clear All

Channel 1 Occupy	Channel 2 Occupy	Channel 3 Occupy	Channel 4 Occupy	Channel 5 Occupy	Channel 6 Occupy
Channel 7 Occupy	Channel 8 Occupy	Channel 9 Occupy	Channel 10 Occupy	Channel 11 Occupy	Channel 12 Occupy
Channel 13 Occupy	Channel 14 Occupy	Channel 15 Occupy	Channel 16 Occupy	Channel 17 Occupy	Channel 18 Occupy
Channel 19 Occupy	Channel 20 Occupy	Channel 21 Occupy	Channel 22 Occupy	Channel 23 Occupy	Channel 24 Occupy
Channel 25 Occupy	Channel 26 Occupy	Channel 27 Occupy	Channel 28 Occupy	Channel 29 Occupy	Channel 30 Occupy
Channel 31 Empty	Channel 32 Empty	Channel 33 Empty	Channel 34 Empty	Channel 35 Empty	Channel 36 Empty

OK CANCEL APPLY

### Setup <Initial Screen Display> (Default Screen)

Users can assign cameras to wanted <Screen Division Panel> without the restrict of camera sequence .

Menu Tree for connected Camera

Assigned Camera (Green)

Not assigned Camera (Grey)

When Mouse comes here, it shows the camera information

Just <Drag & Drop> cameras to <Screen Division> Panel

Channel 1 Occupied  
Channel 2 Occupied  
Channel 3 Occupied  
Channel 4 Occupied  
Channel 5 Occupied  
Channel 6 Occupied  
Channel 7 Occupied  
Channel 8 Occupied  
Channel 9 Occupied  
Channel 10 Occupied  
Channel 11 Occupied  
Channel 12 Occupied  
Channel 13 Occupied  
Channel 14 Occupied  
Channel 15 Occupied  
Channel 16 Occupied  
Channel 17 Occupied  
Channel 18 Occupied  
Channel 19 Occupied  
Channel 20 Occupied  
Channel 21 Occupied  
Channel 22 Occupied  
Channel 23 Occupied  
Channel 24 Occupied  
Channel 25 Empty  
Channel 26 Empty  
Channel 27 Empty  
Channel 28 Empty  
Channel 29 Empty  
Channel 30 Empty  
Channel 31 Empty  
Channel 32 Empty  
Channel 33 Empty  
Channel 34 Empty  
Channel 35 Empty  
Channel 36 Empty

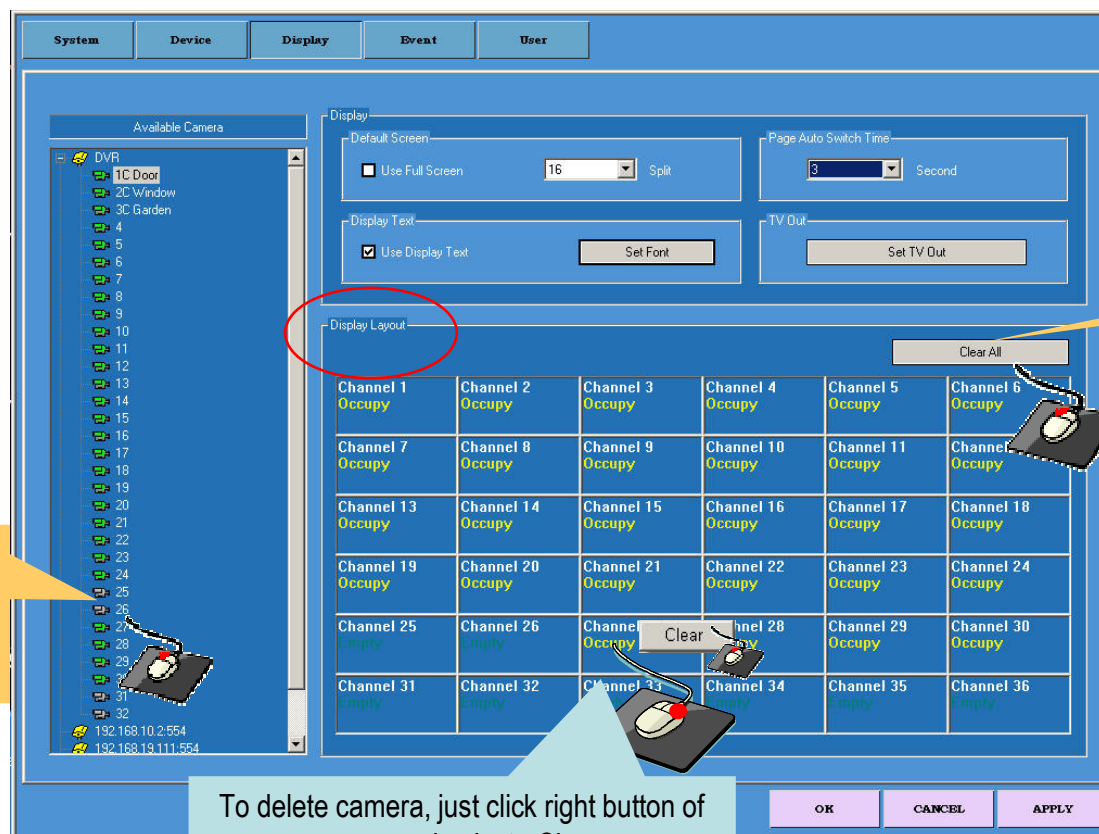
IP=127.0.0.1 Camera=10

OK CANCEL APPLY

<NB>When some cameras are not assigned , those are not shown in <Live View Screen>, but DVR does recording those cameras.  
Moreover, if users use HYR BD, TV-Out does not show those cameras.

## Setup <Initial Screen Display> (Default Screen)

Users can delete cameras in <Default Screen Division>.



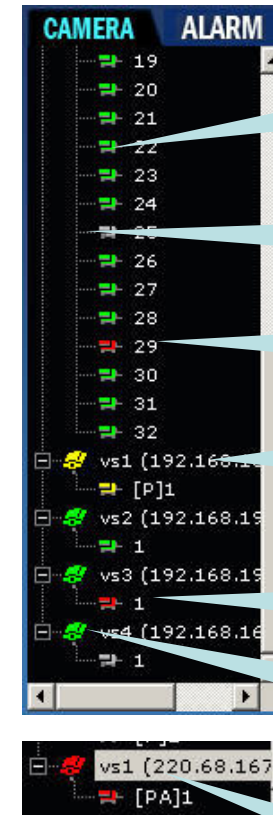
When double click <not assigned camera>(Grey), it is assigned to each camera number

To delete all assigned cameras

To delete camera, just click right button of mouse and select <Clear>

### Description of each icon of <Live Screen Window>

It shows each information of connect cameras and IP products



Rightly assigned Camera  
(Green)

Not assigned  
Camera (Grey)

Video Loss  
(Red)

Reconnecting IP products  
(Yellow)

Video Loss  
(Red)

Rightly assigned Camera  
(Green)

Disconnected IP products  
(Red)



### Description of each icon of <Live Screen Window>

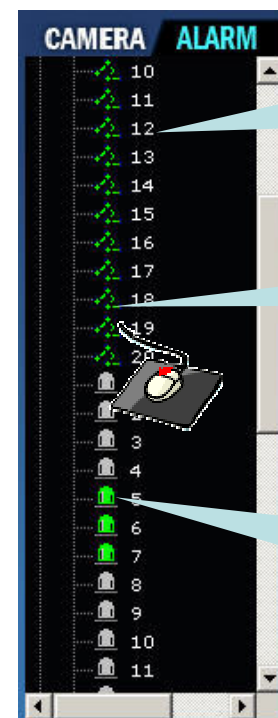
Can check and control of IP products status and connection in Live Window Menu Tree

The screenshot displays the Securus DVR Live View interface. The main window shows a grid of camera feeds. On the right side, there is a menu tree with 'CAMERA' and 'ALARM' sections. The 'CAMERA' section is highlighted, showing a list of cameras with their status (green for online, red for offline). A red circle highlights the 'CAMERA' section in the menu tree. A mouse cursor is shown clicking on the right button of the mouse, which triggers a context menu with options: 'Speech', 'Try to connect', and 'Disconnect'. A speech bubble indicates that the user can select 'Connect/Disconnect IP products' from this menu. Another speech bubble indicates that the user should 'Click right button of mouse' to open the context menu.

When Network is disconnect, DVR tries to connect 3 times for certain time, after this time DVR does not try anymore.

### Description of each icon of <Live Screen Window>

It shows Sensor and Alarm status and Relay control



Relay Control  
Green: ON  
Grey: OFF

Can control Relay on/off by  
double clicking

Alarm Status  
Grey: No Action.  
Green: Alarm in Action

### Description of each icon of <Live Screen Window>

Shows Date and Time , Live Audio and Remote Client Status

The screenshot shows the Securus DVR Live View interface. A 6x6 grid of video feeds is displayed, with some feeds showing 'Video Loss' or 'DVR'. A 'Network Connection Information' dialog box is open, showing the following data:

IP Address	Login ID	Connected Time
220.68.167.15	admin	07-04-2008 14:06:34

At the bottom of the interface, there is a status bar with the following elements:

- DATE TIME:** 07-04-2008 14:06:39
- AUDIO:** Represented by a speaker icon.
- COLOR:** Represented by a color bar icon.
- OTHER:** Represented by a network icon.

Callouts identify the following buttons:

- Live Audio Button:** The speaker icon in the status bar.
- Network Client Status Button:** The network icon in the status bar.





A note states: "When this is not active, Network and Remote Client are discounted".



### How to use Audio

To use <Audio> from each device for Recording and Live View. (DVR Board supports Audio)

Prepared Things to use Audio (N.B Different things to be prepared according to Model)

DVR system				
Cable and Audio bracket	Audio2	Audio 16	Audio 16	Audio16
				
Available	HYC1216, HYC2416, HYR1216, HYR2416	HYC2432, HYR4832	SDR4816	HYC2416, HYR1216, HYR2416
Input Type	Sound card line Input	Audio in to DVR BD		Input through Extra BD

## Audio Setup



Go to <Setup => Device>

**Set Audio**

Available Camera

1. Click < Set Audio >

2. Click < Set Audio >

3. Select camera to use audio

4. Check in Use box to use Audio

5. Select Audio to use

6. Check in < Save Audio > box to save Audio with video in recording (If not, audio is not recorded)

Close

## How to use Audio in <Live View> and <Playback>

### <Live Audio>

**1** Select Camera to use

When Audio is setup to Use, <A> is shown

In Menu Tree, <A> is shown too.

Live Audio click

**2**

Apply Setup Gain to all cameras

Select camera NO (CH NO)

Control Audio Gain

Run <Live Audio>

Apply Default

Save Values

### <Search Recorded Data with Audio>

**1** Select Day to search (RED)

Click <Audio> button first, and click <Play>

**2**

No Audio

Recorded with Audio

Select Time/Minute to search

**3**

**4**

<N.B> <Darker> color indicates <Recorded with Audio>

### How to use Audio in <Live View>

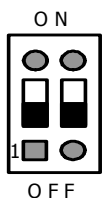
Check <Live Audio> Status



Check the <Live Audio> button

## Alarm In/Out : How to connect Sensor & Relay

Connect Sensors with DVR system



DI Interface Type	RELAY	VOLTAGE
DI_TYPE value	1	0
Switch(SW2)*1	ON,ON	OFF,OFF
External Action	Metallic contact	Voltage level
Isolation	X	O

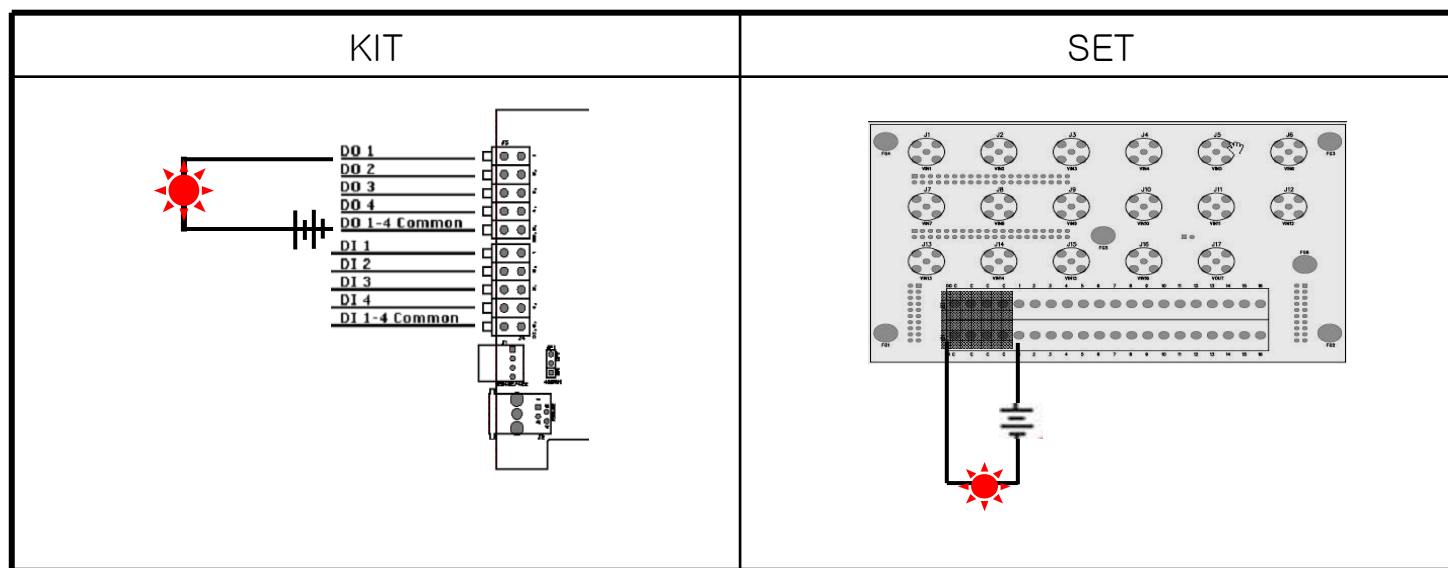
<N.B> Default setting is <Relay Type>

Item	Relay Interface	Voltage Interface
KIT		
SET		
Available Model	HYC2416,HYR4832	


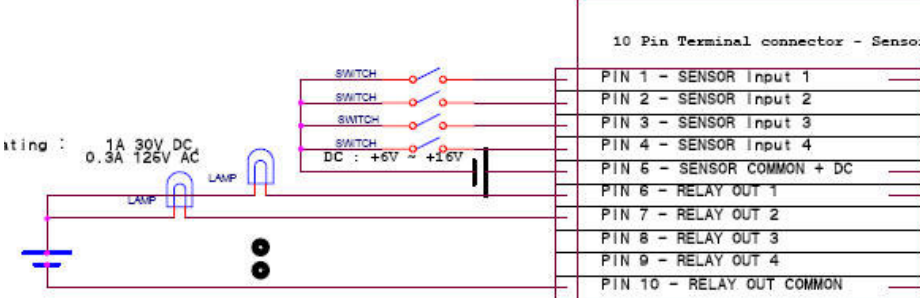

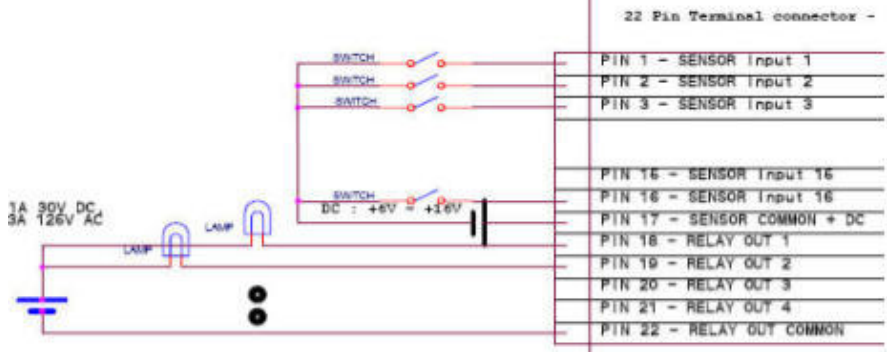


## Alarm In/Out : How to connect Sensor & Relay

Can control external device and transmit signal to Alarm



### Alarm In/Out : How to connect Sensor & Relay

Item	Voltage Interface
 DIO0404	 <p>10 Pin Terminal connector - Senso.</p> <ul style="list-style-type: none"> <li>PIN 1 - SENSOR Input 1</li> <li>PIN 2 - SENSOR Input 2</li> <li>PIN 3 - SENSOR Input 3</li> <li>PIN 4 - SENSOR Input 4</li> <li>PIN 5 - SENSOR COMMON + DC</li> <li>PIN 6 - RELAY OUT 1</li> <li>PIN 7 - RELAY OUT 2</li> <li>PIN 8 - RELAY OUT 3</li> <li>PIN 9 - RELAY OUT 4</li> <li>PIN 10 - RELAY OUT COMMON</li> </ul>
 DIO1604	 <p>22 Pin Terminal connector -</p> <ul style="list-style-type: none"> <li>PIN 1 - SENSOR Input 1</li> <li>PIN 2 - SENSOR Input 2</li> <li>PIN 3 - SENSOR Input 3</li> <li>PIN 15 - SENSOR Input 15</li> <li>PIN 16 - SENSOR Input 16</li> <li>PIN 17 - SENSOR COMMON + DC</li> <li>PIN 18 - RELAY OUT 1</li> <li>PIN 19 - RELAY OUT 2</li> <li>PIN 20 - RELAY OUT 3</li> <li>PIN 21 - RELAY OUT 4</li> <li>PIN 22 - RELAY OUT COMMON</li> </ul>
Available BD Model	HYC1216, HYC2416, HYR1216, HYR2416

## Alarm In/Out : How to setup Sensor & Relay



Go to <Setup =>Device=> Sensor>

Go to <Setup =>Event>

1

Check in <Sensor> box

Select sensor in <Menu tree>

Enter <Sensor Information>

Select Sensor Type  
NO sensor: NC  
NC Sensor: NO

1

Check in <Sensor> box

Select sensor in <Menu tree>

OK CANCEL APPLY

Event

Event Process

Select cameras to work when sensors detected (Multiple)

Duration Time(Second)

Select Relays to work when sensors detected (Multiple)

OK CANCEL APPLY

<N.B> NC : Normal Close  
NO : Normal Open

<N.B> Ex, users can setup cameras No. 1.2 and Relays No. 1, 2, 3 to work when sensor detected 1번 sensor. Multiple cameras and relays can be selected

## Alarm In/Out : How to Setup <Relay Schedule>

### Setup Relay Schedule

Can setup <Relay Schedule> to work in certain time range.)

**1** Check in <Relay> box

Select Relay

Event Working.

No Relay Working

Enter Information

Select Event Operation Time(Dwelling Time)

**Set Relay Schedule**

Available Relay	Event Recording(Second)	Pre	Post
DVR	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		
1F Lamp			
2F Lamp			
3F Lamp			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
192.168.10.2:554			
192.168.19.111:554			
192.168.19.233:554			
192.168.16.6:554			

[ InActive ] Active

Apply All Close

3F Lamp Keyboard

Operation Time 0 Minute

Set Schedule

OK CANCEL APPLY

### Alarm In/Out : How to Setup <Relay Schedule>

SETUP

Go to <Setup=> Device> (Refer to Recording Chapter for more details)

1

Check in  
<Camera> box

2

Select  
camera

3

Click <Set Schedule>

Apply All

Pre-Alarm Recording  
Max 5 seconds  
(1 pfs)

Post-Alarm Recording  
.Max 240 seconds based on  
setup fps

Can Schedule Backup  
per week

When clicking Day, it  
applies to all days

When clicking <Time>, it  
applies to all that time.

By just <Drag & Drop>  
by certain range , can  
setup Recording

3 Kinds of ways to record when sensor  
detected  
(Sensor, Sensor& Motion, Normal & Event)

### Alarm In/Out : Check the working Status

Sensor Status in <Live View>



Relay connection and  
Control in <Menu Tree>

Double click for Relay

Sensor connection  
and Status



### How to control Image Quality

Select camera to change Image Quality

When changing image values by the buttons below, changed value will be shown

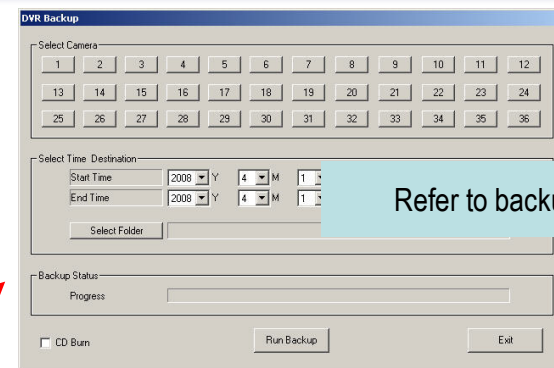
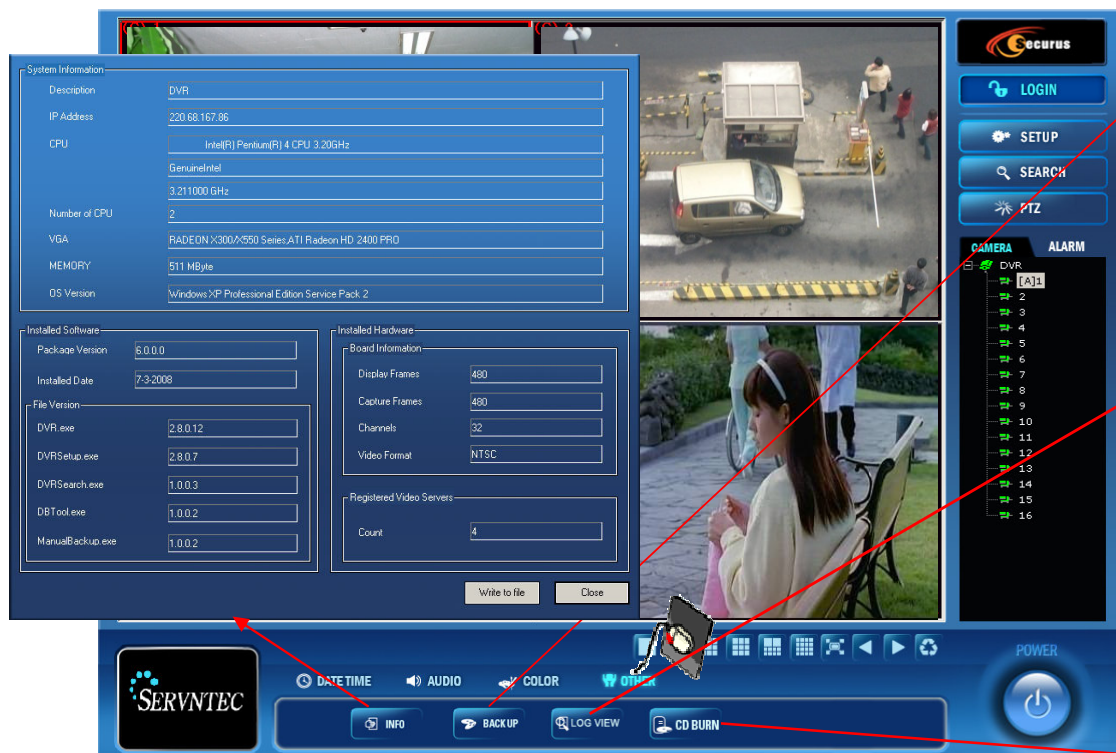
The screenshot displays the Securus DVR Live View interface. It features four camera feeds arranged in a 2x2 grid. The top-left feed shows an office interior with a person walking, and the bottom-left feed shows two people sitting at a desk. The top-right feed shows a yellow car parked in a lot, and the bottom-right feed shows a person sitting on a bench. To the right of the feeds is a sidebar with a 'CAMERA' list and an 'ALARM' section. At the bottom of the interface is a control panel with various buttons and a 'POWER' button. Below the control panel, there are labels for the image quality adjustment buttons: Bright, Contrast, Saturation, Hue, Apply All, Default, and Save Values. A mouse cursor is shown clicking on the 'Saturation' button.

**Image Quality Control Buttons:**

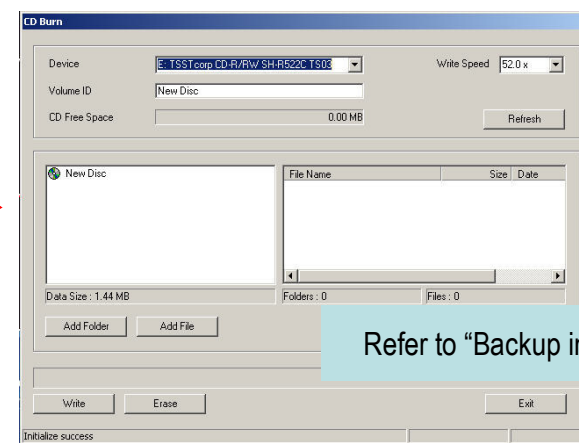
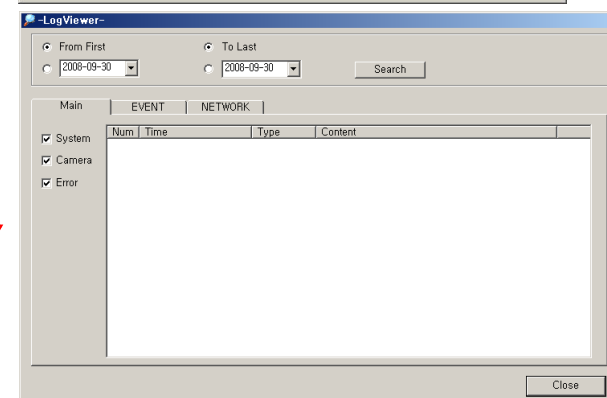
- Bright
- Contrast
- Saturation
- Hue
- Apply All
- Default
- Save Values

## System Information & Manual Backup & LogViewer

Check the System information and Simple Backup



Refer to backup chapter



Refer to "Backup in CD/DVD"



## System Information

### Check and Maintain System information

**System Information**

Description	DVR
IP Address	220.68.167.86
CPU	Intel(R) Pentium(R) 4 CPU 3.20GHz
	GenuineIntel
	3.211000 GHz
Number of CPU	2
VGA	RADEON X300/X550 Series ATI Radeon HD 2400 PRO
MEMORY	511 MByte
OS Version	Windows XP Professional Edition Service Pack 2

**Installed Software**

Package Version	6.0.0.0
Installed Date	7-3-2008
File Version	
DVR.exe	2.8.0.12
DVRSetup.exe	2.8.0.7
DVRSearch.exe	1.0.0.3
DBTool.exe	1.0.0.2
ManualBackup.exe	1.0.0.2

**Installed Hardware**

**Board Information**

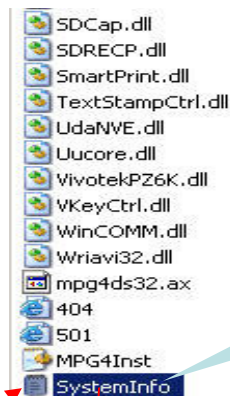
Display Frames	480
Capture Frames	480
Channels	32
Format	NTSC

**Video Servers**

	4
--	---

**<systeminfo file> is saved in C:\program files\dvr**

C:\program files\dvr



Copy this file for <System information> checking

**SystemInfo - Notepad**

```

File Edit Format View Help
***** SYSTEM INFORMATION *****
IP Address : 220.68.167.86
OS Type : windows xp professional edition service pack 2
CPU Name : intel(r) pentium(r) 4 cpu 3.20ghz
CPU Vendor : genuineintel
CPU Speed : 3211
Number of CPU : 2
Memory : 511 MByte
VGA : RADEON X300/X550 Series ATI Radeon HD 2400 PRO
***** Hardware Information *****
Display Frames : 480
Capture Frames : 480
Channels : 32
Video Format : NTSC
Video Server Count : 4
Num: 1 => Type: VS_S082416
Num: 2 => Type: VS_S082416
Num: 3 => Type: VS_S082416
Num: 4 => Type: VS_S082416
Num: 5 => Type: VS_S082416
***** PACKAGE Version *****
Package : 6.0.0.0
***** EXE Version *****
DVR.exe : 2.8.0.12
DVRSetup.exe : 2.8.0.7
DVRSearch.exe : 1.0.0.3
DBTool.exe : 1.0.0.2
ManualBackup.exe : 1.0.0.2
***** Driver Version *****
DVR240EX.sys : unknown
LiveCap.sys : 1.6.3.4
HSV-LIU.sys : unknown
HSV-CAP.sys : unknown
Cpsdev.sys : unknown
Saa7146.sys : unknown
DEV7146.sys : unknown
Cpsdev.sys : unknown
  
```

## LogViewer

1. Select Y/M/D/H/M

2. Select log type.

Num	Time	Type	Content
59	2008/09/30 13:46:07	MAIN	DVR Close
58	2008/09/30 13:46:06	MAIN	[Board] Board unloaded
57	2008/09/30 13:46:05	MAIN	[Board] Board unloaded
56	2008/09/30 13:46:04	MAIN	[Board] Board unloaded
55	2008/09/30 13:46:03	MAIN	[Board] Board unloaded
54	2008/09/30 13:46:02	MAIN	[Board] Board unloaded
53	2008/09/30 13:38:26	MAIN	Split_4 Command
52	2008/09/30 13:38:07	MAIN	Setup Command
51	2008/09/30 13:35:51	MAIN	Other Pannel Command
50	2008/09/30 13:35:51	MAIN	Logon Success [ID:admin]
49	2008/09/30 13:35:43	MAIN	[Board] Start to capture
48	2008/09/30 13:35:36	MAIN	[Board] Start event thread
47	2008/09/30 13:35:36	MAIN	[Board] Apply hardware setting
46	2008/09/30 13:35:36	MAIN	[Board] Successful to load
45	2008/09/30 13:35:30	MAIN	Running Type HybridDVR : Package Version 6.2...
44	2008/09/29 11:58:44	MAIN	DVR Close
43	2008/09/29 11:58:43	MAIN	[Board] Board unloaded
42	2008/09/29 11:58:43	MAIN	[Board] Capture Stop
41	2008/09/29 11:58:40	MAIN	Exit Command
40	2008/09/29 11:58:40	MAIN	Logon Success [ID:admin]
39	2008/09/29 11:57:53	MAIN	[Board] Start to capture

## EVENT

Search event log.

Num	Time	Type	VS	Index	Content
98	2008/10/01 11:10:08	MOTION ...	DVR	11	Save for Motion (11)
97	2008/10/01 11:10:08	MOTION ...	DVR	11	Save for Motion (09)
96	2008/10/01 11:10:08	MOTION ...	DVR	10	Save for Motion (02)
95	2008/10/01 11:10:08	MOTION ...	DVR	10	Save for Motion (10)
94	2008/10/01 11:10:08	MOTION ...	DVR	8	Save for Motion (08)
93	2008/10/01 11:10:08	MOTION ...	DVR	14	Save for Motion (04)
92	2008/10/01 11:10:08	MOTION ...	DVR	6	Save for Motion (06)
91	2008/10/01 11:10:08	MOTION ...	DVR	1	Save for Motion (01)
90	2008/10/01 11:10:08	MOTION ...	DVR	13	Save for Motion (13)
89	2008/10/01 11:10:08	MOTION ...	DVR	7	Save for Motion (07)
88	2008/10/01 11:10:08	MOTION ...	DVR	5	Save for Motion (05)
87	2008/10/01 11:10:08	MOTION ...	DVR	3	Save for Motion (03)
86	2008/10/01 11:10:08	MOTION ...	DVR	12	Save for Motion (12)
85	2008/10/01 11:10:08	MOTION ...	DVR	14	Save for Motion (14)
84	2008/10/01 11:09:38	MOTION ...	DVR	1	Save for Motion (01)
83	2008/10/01 11:09:38	MOTION ...	DVR	2	Save for Motion (02)
82	2008/10/01 11:09:38	MOTION ...	DVR	3	Save for Motion (03)
81	2008/10/01 11:09:38	MOTION ...	DVR	8	Save for Motion (08)
80	2008/10/01 11:09:38	MOTION ...	DVR	10	Save for Motion (10)
79	2008/10/01 11:09:38	MOTION ...	DVR	13	Save for Motion (13)
78	2008/10/01 11:09:38	MOTION ...	DVR	7	Save for Motion (07)

When double clicking list, it playback.

Num	Time	Type	VS	Index	Content
98	2008/10/01 11:10:08	MOTION ...	DVR	11	Save for Motion (11)
97	2008/10/01 11:10:08	MOTION ...	DVR	11	Save for Motion (09)
96	2008/10/01 11:10:08	MOTION ...	DVR	10	Save for Motion (02)
95	2008/10/01 11:10:08	MOTION ...	DVR	10	Save for Motion (10)
94	2008/10/01 11:10:08	MOTION ...	DVR	8	Save for Motion (08)
93	2008/10/01 11:10:08	MOTION ...	DVR	14	Save for Motion (04)
92	2008/10/01 11:10:08	MOTION ...	DVR	6	Save for Motion (06)
91	2008/10/01 11:10:08	MOTION ...	DVR	1	Save for Motion (01)
90	2008/10/01 11:10:08	MOTION ...	DVR	13	Save for Motion (13)
89	2008/10/01 11:10:08	MOTION ...	DVR	7	Save for Motion (07)
88	2008/10/01 11:10:08	MOTION ...	DVR	5	Save for Motion (05)
87	2008/10/01 11:10:08	MOTION ...	DVR	3	Save for Motion (03)
86	2008/10/01 11:10:08	MOTION ...	DVR	12	Save for Motion (12)
85	2008/10/01 11:10:08	MOTION ...	DVR	14	Save for Motion (14)
84	2008/10/01 11:09:38	MOTION ...	DVR	1	Save for Motion (01)
83	2008/10/01 11:09:38	MOTION ...	DVR	2	Save for Motion (02)
82	2008/10/01 11:09:38	MOTION ...	DVR	3	Save for Motion (03)
81	2008/10/01 11:09:38	MOTION ...	DVR	8	Save for Motion (08)
80	2008/10/01 11:09:38	MOTION ...	DVR	10	Save for Motion (10)
79	2008/10/01 11:09:38	MOTION ...	DVR	13	Save for Motion (13)
78	2008/10/01 11:09:38	MOTION ...	DVR	7	Save for Motion (07)

## How to setup Camera Name and OSD

SETUP

Can Setup camera description and size and font of OSD

Setup =>Device

Setup =>Display

**Device Tab:**

- Available Device:** List of cameras (1-32). A callout points to camera 2: "Select Camera".
- Camera:**
  - ☒ Use Camera
  - Resolution: 360x240
  - Frame Rate: 1/32
  - Image Quality: 1
- Camera Function:**
  - Camera Information: [11111111111111111111111111111111] (Callout: "Enter Camera Name (Ex, Meeting room)")
  - ☐ Set Hide Camera
  - ☒ Use PT
  - ☐ Set TDS Camera
  - ☐ Set TDS Camera
- Relay:**
  - Relay Information: [ ]
  - Operation Time: [ ]

**Display Tab:**

- Available Camera:** List of cameras (1-32).
- Display:**
  - Default Screen: [16]
  - ☒ Use Full Screen
  - ☒ Use Display Text (Callout: "Click and Set Font, size and color")
  - Set Font (Callout: "Click and Set Font, size and color")
  - Set TV Out
- Font Dialog:**
  - Font: MS Sans Serif
  - Font style: Bold
  - Size: 10
  - Effects: ☐ Strikeout, ☐ Underline
  - Color: Red
  - Sample: AaBbYyZz

**Callouts:**

- 1: Check in <Display Tool> for OSD
- Select Camera
- Enter Camera Name (Ex, Meeting room)
- Click and Set Font, size and color

### How to setup Camera Name and OSD

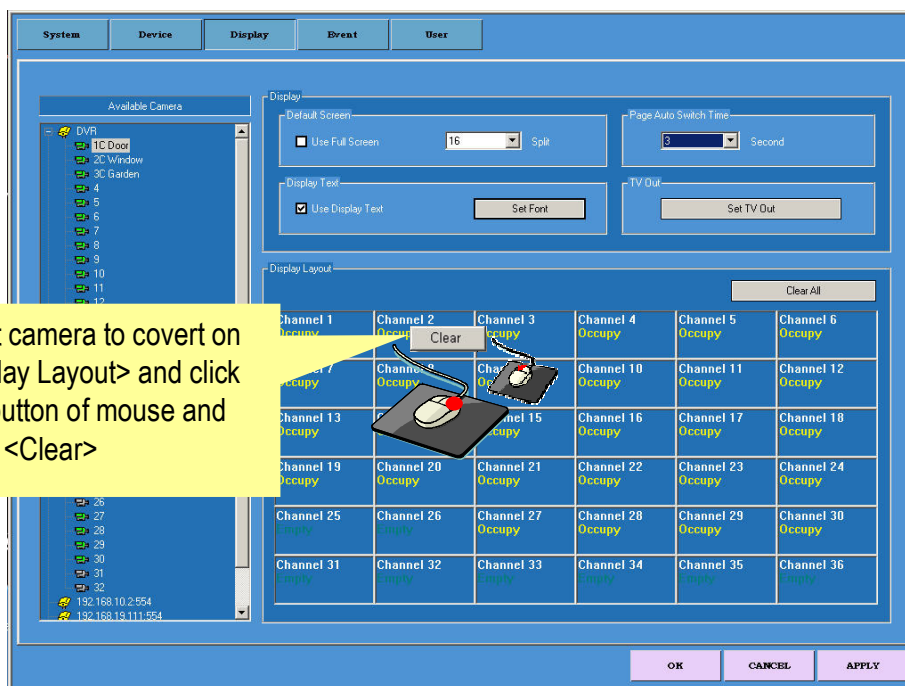
#### How to setup Camera Name and OSD





### Covert camera (Hide Screen)

Using <Hide Screen>, users can make certain camera not be shown in <Live View >, but not in <TV-out>, and it continues recording



Covert Screen



Live View in Main DVR












TV-Out Screen

N.B It applies to <DVR main> and <TV-out > together but not to NCMS



**PTZ: PTZ Control Devices**

## P/TZ Control Devices

Available BD Model	EIO0404	EIO1604	DIO0404	PTZ
Image				
USB Support	Yes			
Cable	RS232C 	RS422/485 	USB 	USB 
Available model	HYC2432, HYR4832, HYR4816			HYR1216, HYR2416, HYC1216, HYC2416
ETC	To use <EIOO> , have to install <b>USB Driver (AvSwitch_PL-2303 Driver Installer)</b> Can not use RS232C port and USB Port together			 USB Driver install

## PTZ Control: How to use EIO USB Serial Converter

Connection to use EIO USB Serial converter

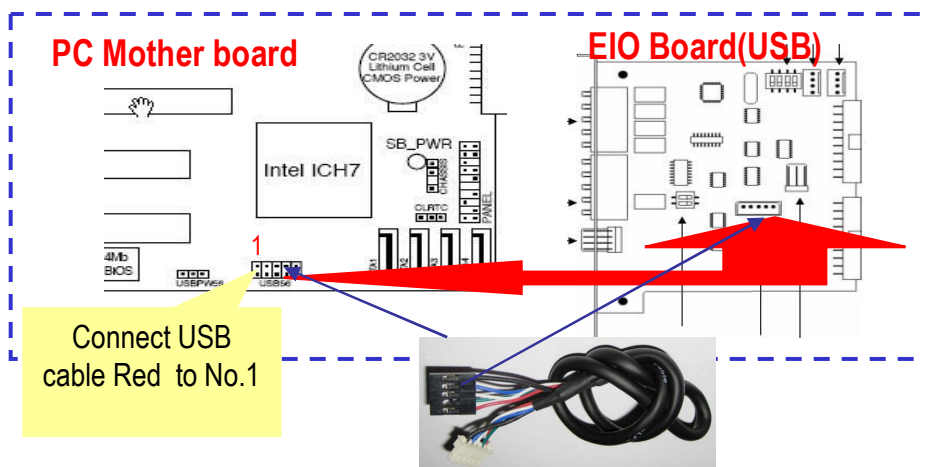
This is used to use Comport in motherboard



RS232C Port RS232C Cable RS232C Converter

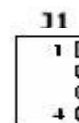
### 1 PTZ Connection 1

How to connect <PC mother BD> and < EIO USB>



### 2 PTZ Connection 2

RS422/485 Connection

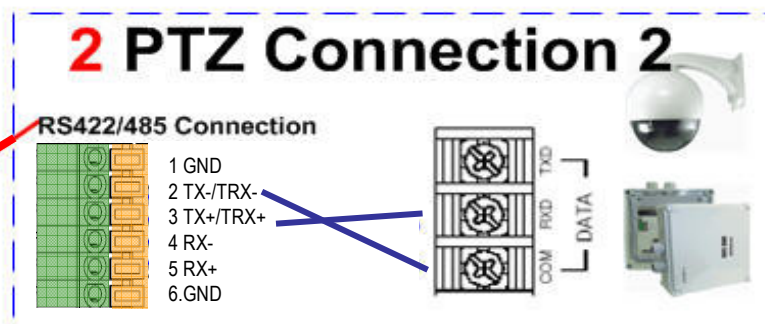


Color	RS422	RS485
Yellow	TX+	TRX+
Orange	TX-	TRX-
Red	RX+	
Brown	RX-	

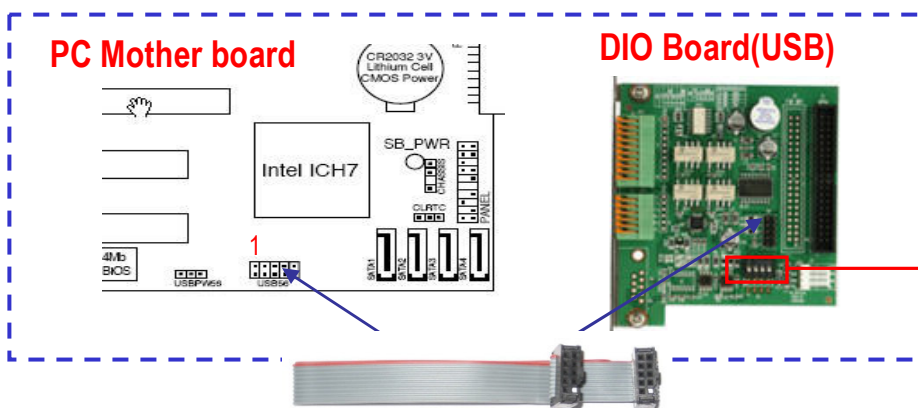
<N.B> Do not use <Motherboard> com port and USB together

### PTZ Control: How to use DI/DO Serial Converter

Connect by DIO Serial converter



<N.B> How to connect <PC mother BD> and < EIO USB>

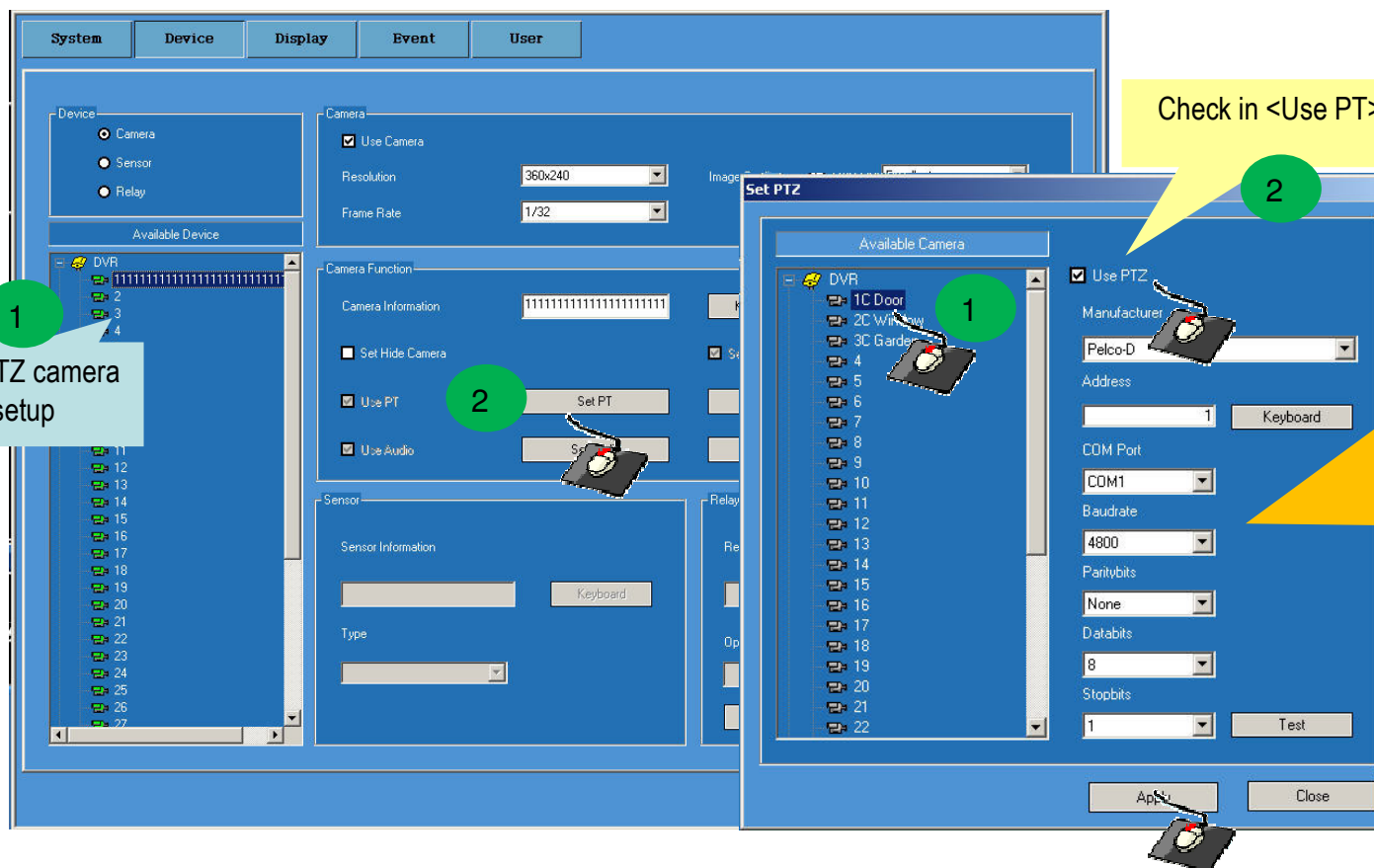


SW	RS422	RS485
1	ON	OFF
2	ON	OFF
3	ON	OFF
4	ON	OFF

### PTZ Control: How to Setup

SETUP

Go to <Setup => Device>



1  
Select PTZ camera  
to setup

Check in <Use PT> box

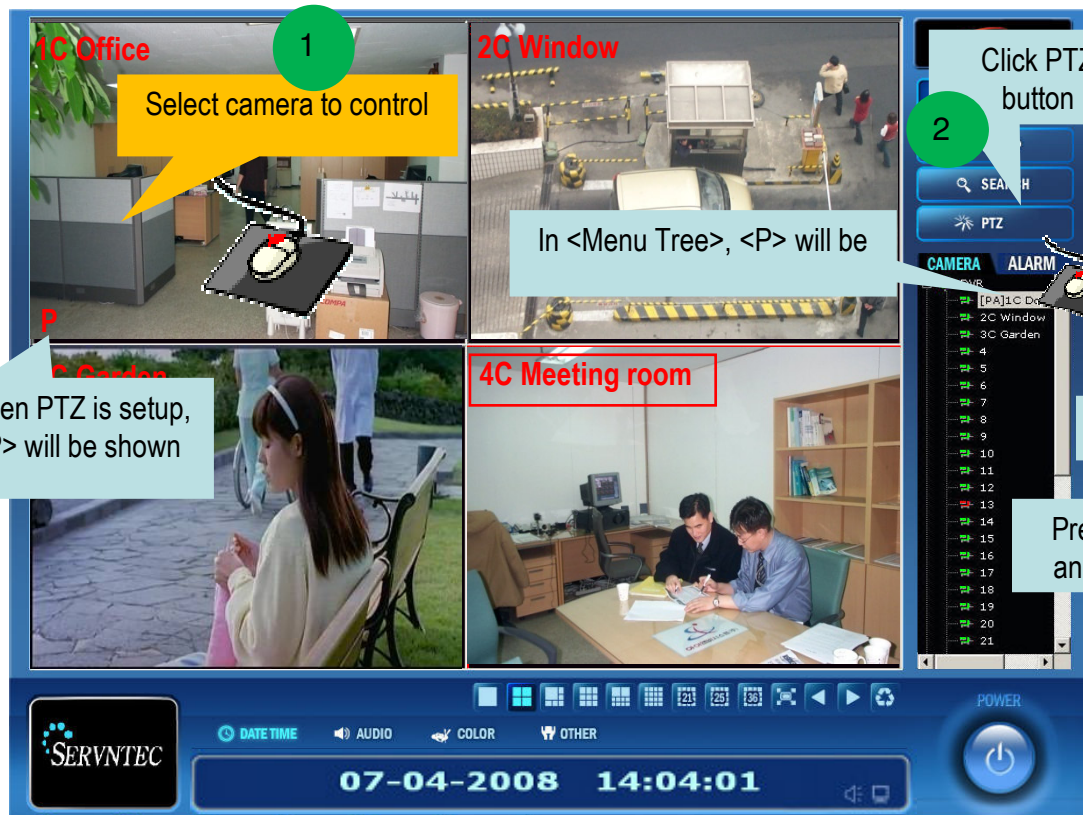
Setup all like below  
Select Manufacture (PTZ Brand)  
Address: Receiver address  
Com port  
Baud Rate  
Parity Bits  
Data Bits  
Stop Bits  
For this please refer to PTZ  
camera manual

### PTZ Control: How to control PTZ camera



P/T/Z control

Can control PTZ by <On screen> and <PTZ Panel>



### <PTZ> Panel

Camera on/off

Lamp on/off

Aux on/off

Click PTZ button

Zoom

Preset Setting and operation

Direction Control, Auto pan

Selected Camera

Focus

Touring setting and operation





### PTZ Control: How to control PTZ camera

P/T/Z control by <On-Screen>

The screenshot displays the Securus DVR's Live View interface. It features a multi-camera view with four main panels. The top-left panel, labeled '1C Office', shows an office interior with a yellow callout box containing the text: 'When mouse drag in PTZ camera, it shows the direction arrow like right t picture. Can control PTZ by Mouse on-screen.' The bottom-left panel, labeled '1C Garden', shows a woman sitting on a bench. The top-right panel, labeled '2C Window', shows a person walking outside. The bottom-right panel shows a person at a desk. A yellow callout box points to the 'PTZ' button in the right-hand control panel, stating: 'When clicking PTZ button <PTZ Panel> will be shown.' The control panel on the right includes buttons for LOGIN, SETUP, SEARCH, and PTZ, along with a directional pad and other camera controls. The bottom status bar shows the date and time as 07-04-2008 14:04:01, along with various system icons and the SERVITEC logo.

## How to setup and control <Preset>



### Preset Setup and Operation

Preset ???: This can make certain PTZ camera go to certain position

#### Preset Add

When Double clicking, Preset works

Click Setting button

1

2

3

4

Enter Preset No and Description (Ex.Door)

Must Save this

Click <Add> button to add this to Preset List (This is saved in Receiver).  
Can add these as you want in the list

#### Preset Working

5

Move PTZ camera to wanted position (Ex . Door)

When select and clicking it moves.

<N.B> When Preset No is the same , the final No is saved.

## How to setup and control <Touring>



### Touring Setup and Operation

#### Touring??

By the combination of Presets, user can make PTZ camera <Tour> around saved preset positions.

**1** Show saved Presets in List

**2** Click and add Touring

**3** Write Touring NO and Description

**4** Select and Add <Preset> in list by clicking ">>" and select <Duration Time> (of touring).

**5** ADD

Touring Setting Button

Tour ADD

Tour No	Description
1	front door

Preset

1:1	2:2	3:3	4:door
-----	-----	-----	--------

Member

Duration 2 Sec.

ADD

EXIT

SAVE

DELETE

EXIT

### How to setup and control <Touring>



#### Touring Setup and Operation

**Tour**

1

Tour No	Description
1	front door

Member

1 : 1 (2)  
2 : 2 (2)  
3 : 3 (2)  
4 : door (2)

ADD

MODIFY

DELETE

SAVE

EXIT

When double clicking, it starts testing of touring

Must <Save> this



When selecting and clicking, it starts touring

Ex) It starts Touring , starts go to <1> and dwells 2 seconds (as setup), and goes to other preset positions

### How to use <Instant Playback> and <Instant Playback Player>

By this users can search and playback instantly on-screen and search and playback easily

When selecting <Time Range> to playback, <Instant Playback Player> will be shown like below. With this users can easily search and playback data on-screen.

1 Click right button of mouse and select time range to playback

2 Select Time/Date

3 Select Time Range

4 Searched Video are played instantly

5 Control Playback Speed

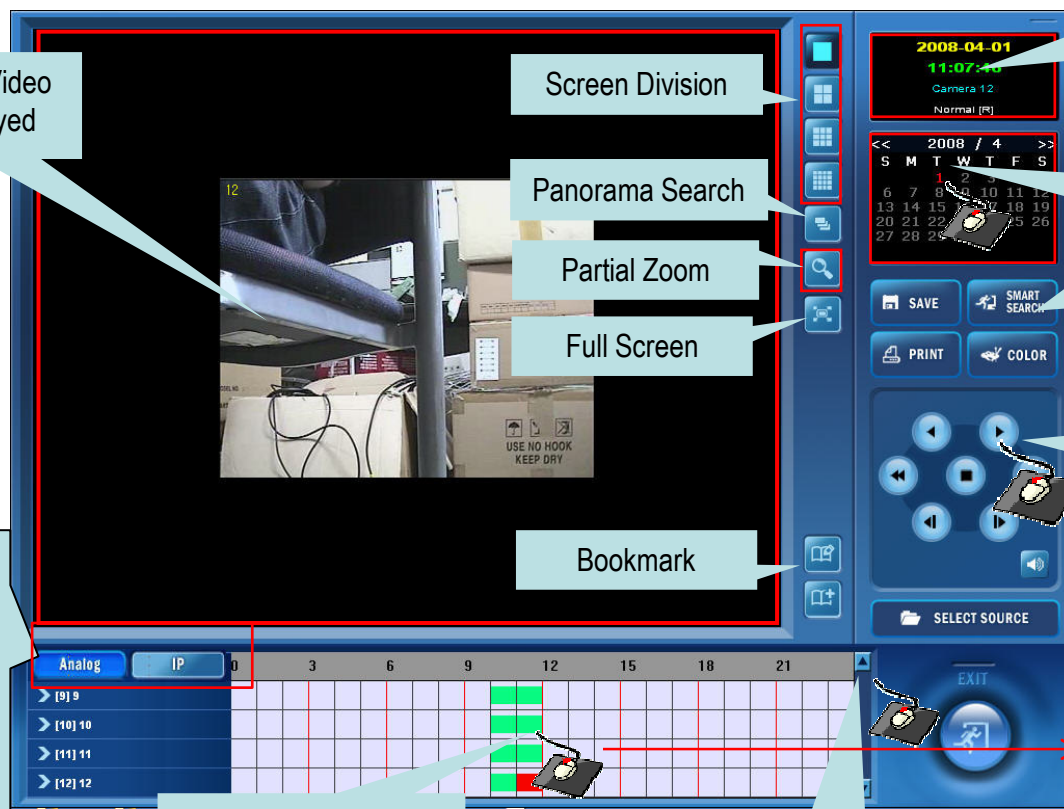
When selecting <Time Range> to playback, <Instant Playback Player> will be shown like below. With this users can easily search and playback data on-screen.



### How to <Search and Playback> recorded data



To search and playback recorded data



#### Information Window

Recorded time, camera and recording Mode

#### Calendar

Show date for selected Date in RED

Function button  
Print, Save (Jpeg, AVI),  
Smart search, Image tool

Play Butoon

CH Selection for Analog and IP product.  
(IP product CH is saved in 33,34,34,36 CH)

Select Time/Minute to search and playback

Camera Scroll Button

- Green: Continuous Recorded Data
- Yellow: Motion Recorded Data
- Orange: Sensor Recorded Data
- Blue: Continuous & Event Recorded Data
- Pink: Sensor & Motion Recorded Data
- ※ Each Dark Color means <Recorded with Audio>

### 1CH Screen

#### 1 CH Search and Playback

The screenshot shows the main interface for 1CH Search and Playback. It includes a video preview window, a calendar, a time bar, a minute bar, and a control panel with various playback buttons.

**Calendar:** Yellow: Recorded Data, Red: Selected Date, Grey: No Record

**Time Bar:** By double click it changes

**Minute Bar:** By double click it changes

**Speed:** 02-14-2008 13:21:34 Camera 03 Motion [P]

**Control Panel:**

- Reverse Play
- Play
- Speed down
- Speed up(R,x2,x4,x8)
- Reverse play Frame by frame
- Play frame by frame
- Stop
- Audio play Button

### Multi CH <Search and Playback>



Multi CH search and playback

#### 4 CH Search



EX) When selecting 7CH and playback in 4CH division, which show 5CH~8CH

Select CH/Time/Minute to search and Playback

#### 16 CH Search



### 1CH Search during Multi CH search



To change 1CH in Multi CH search

In Multi CH search, just  
Double click CH to change



Change to wanted CH, but  
stops. Have to play back again.

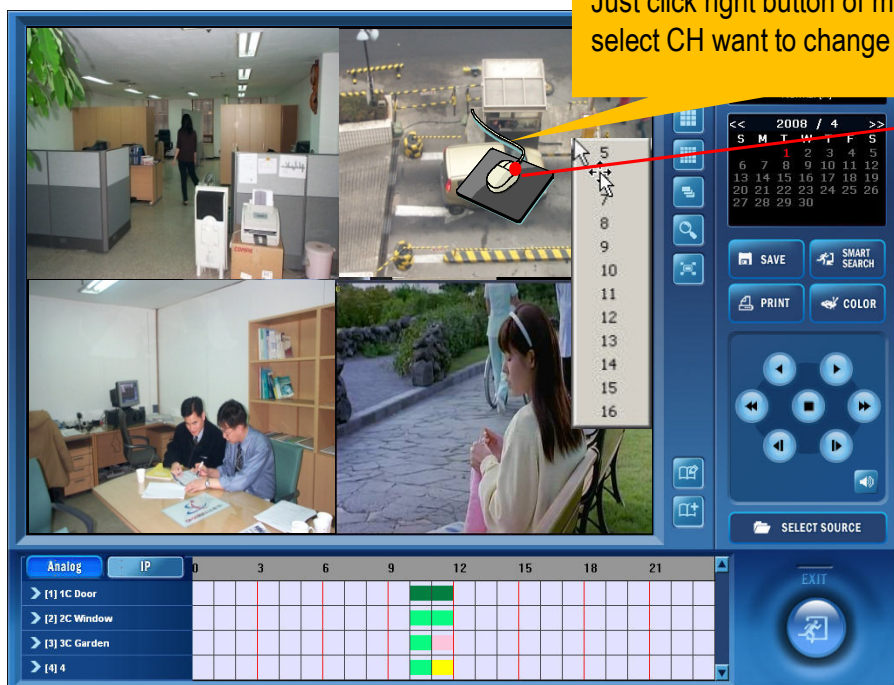




### Combination Search

Can combination wanted channels during Multi CH search

1,2,3,4 CH Screen



1,8,3,13 CH Screen





### Panorama Search

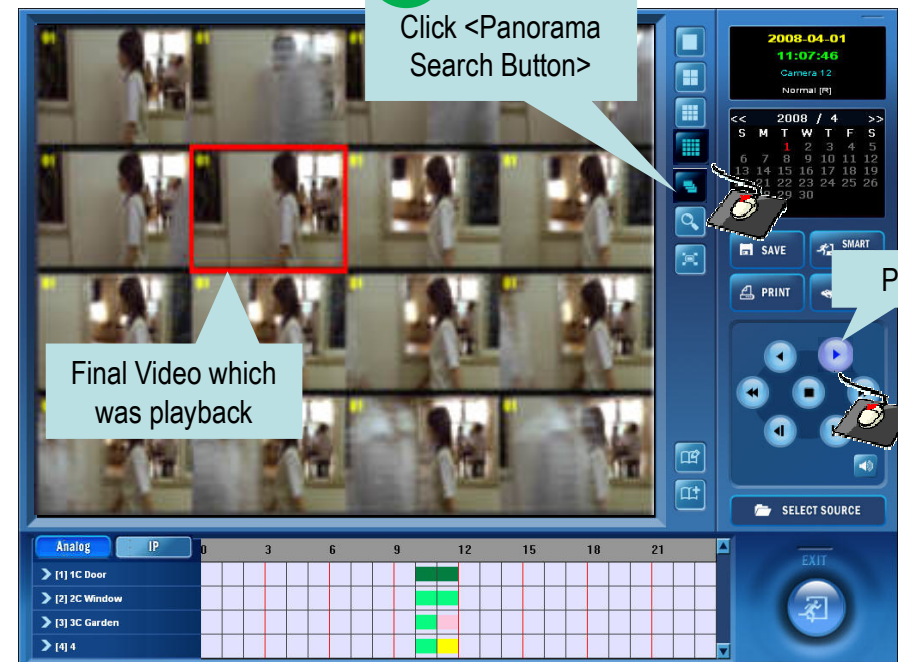


Show panoramic Image in Playback



1

Select Time/Minute to Playback



2


Click <Panorama Search Button>

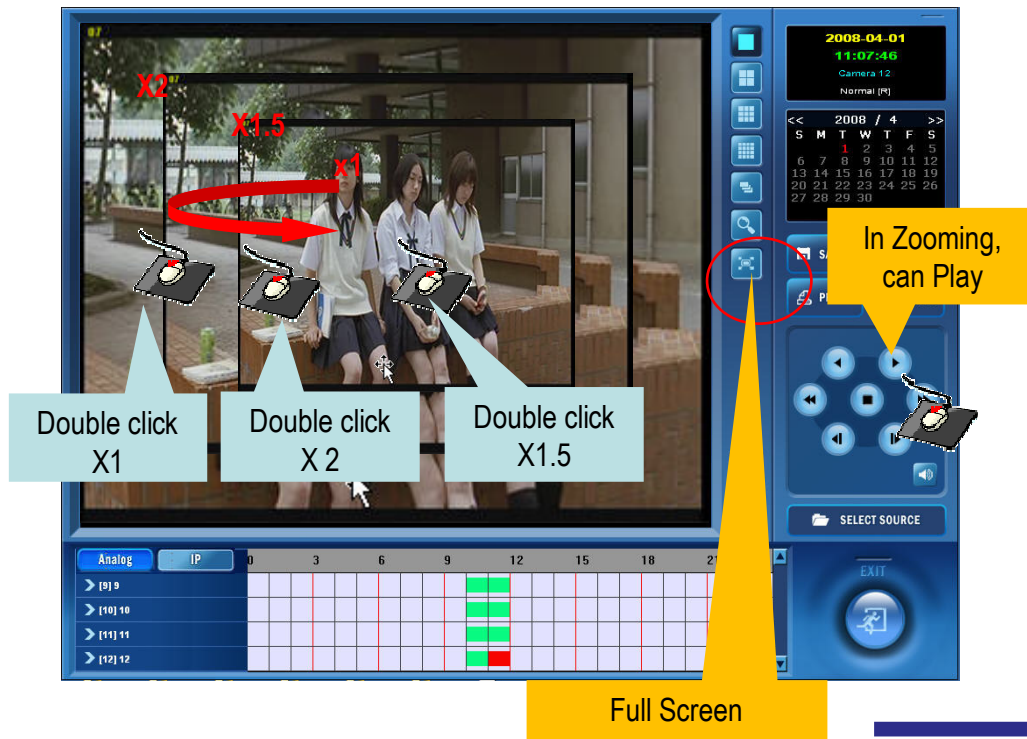
3

Play

Final Video which was playback

### Zoom

Can Zoom Up the Video (x1, x1.5, x2, Full ) by just clicking the mouse



In Full Screen Playback  
(Play, Reverse play, Stop, Exit)



### Bookmark

In search, can <Bookmark> certain data and playback



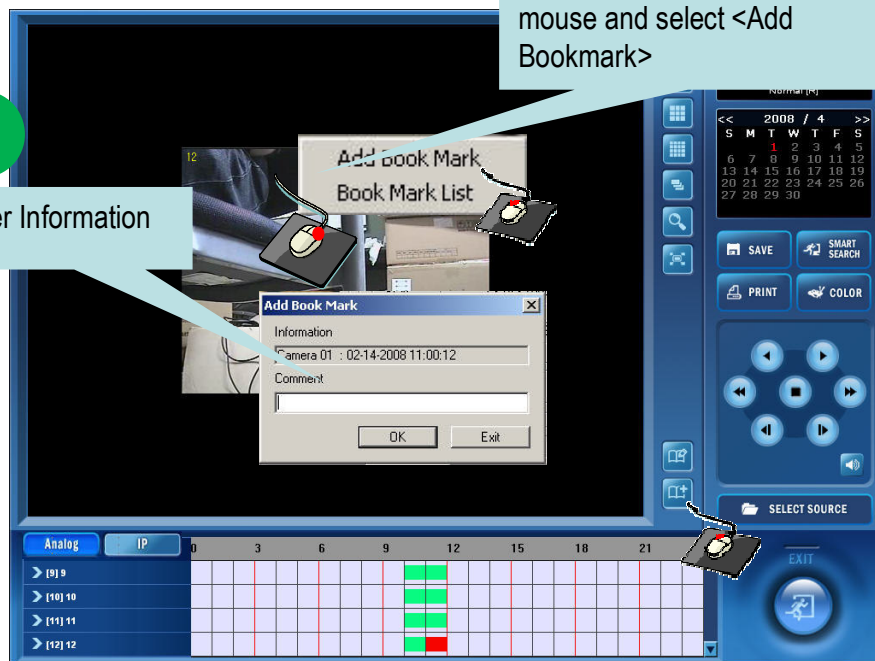
**Book Mark Add**  
Add inBook mark list

1

In playback, click the right button of mouse and select <Add Bookmark>

2

Enter Information



**Book Mark List**

Can Search and playback <Bookmark List>

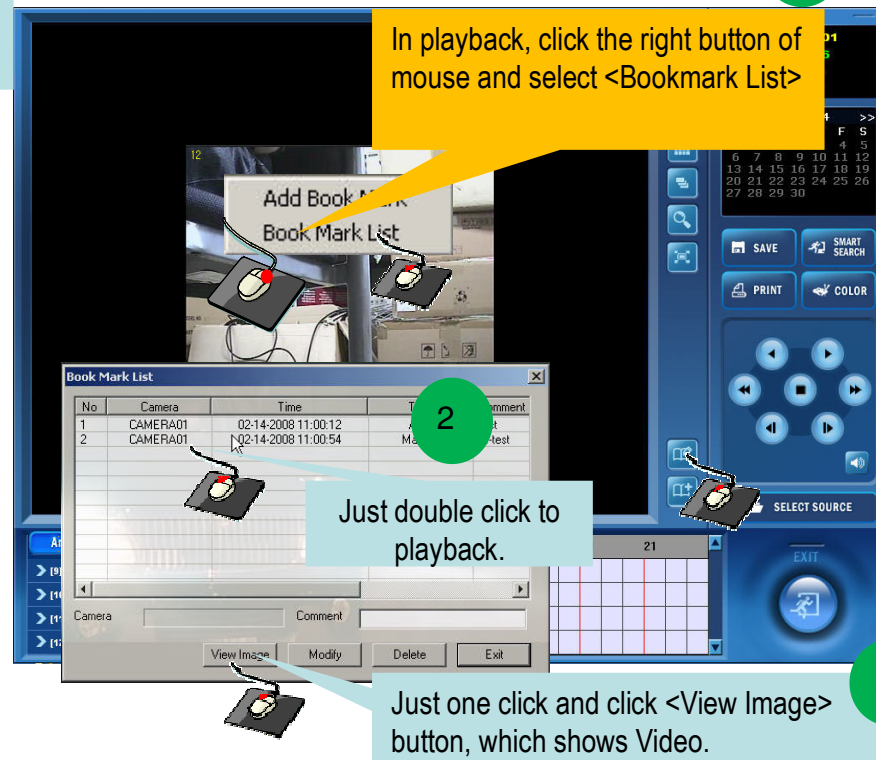
1

In playback, click the right button of mouse and select <Bookmark List>

2

Just double click to playback.

Just one click and click <View Image> button, which shows Video.



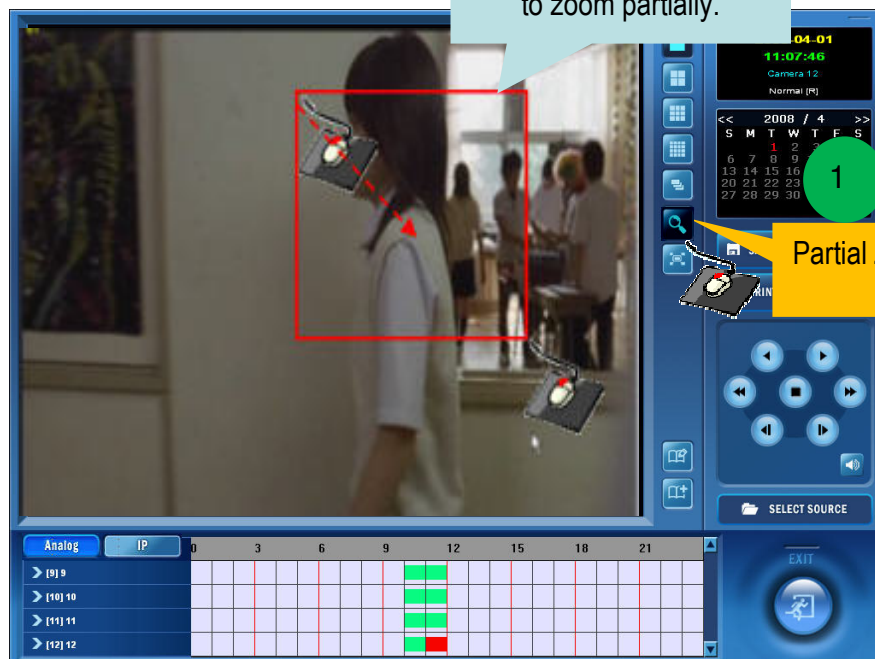
### Area Zoom



In Playback, can partially zoom certain area to monitor that with care

2

Just <Drag & Drop> area  
to zoom partially.



Zoom Image



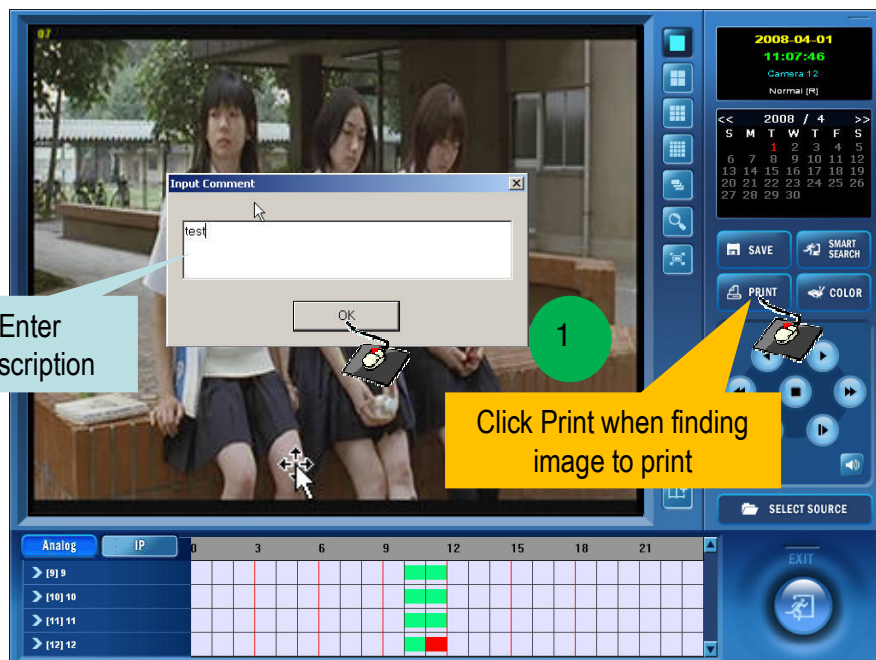


### Print Image

 PRINT

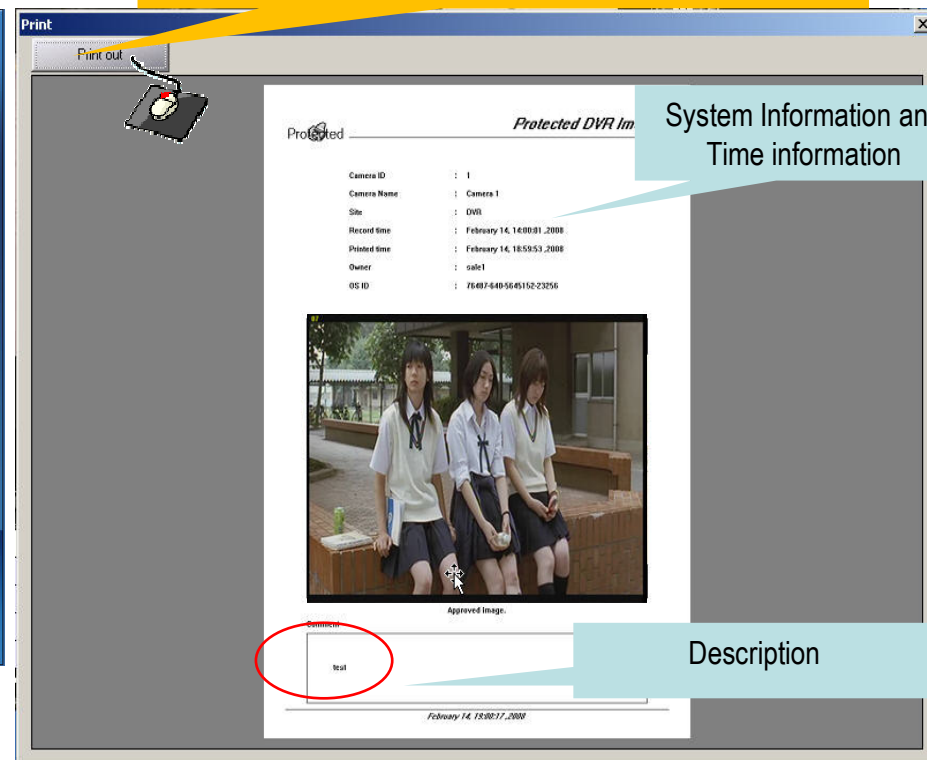
Printer out the searched image

After checking all information, just click to Print



Enter Description

<N.B> When Image size is small in search screen, the print image will be small. So please changes size before print





### Smart- Search



To detect <motion or changed things> in certain areas, bookmark, and playback and use them easily and smartly

**1** Select Time/Minute to smart-search

**2** Click <Smart-Search> Button

**3** Click <Add > button to add Area to search Or Delete

**4** Rate of Motion/Sensitivity (Lower-More Sensitive)

**5** Search Time Setting

**6** Select Search Method

**7** Just <Drag & Drop> by Mouse to add area

<Auto search> Video data List

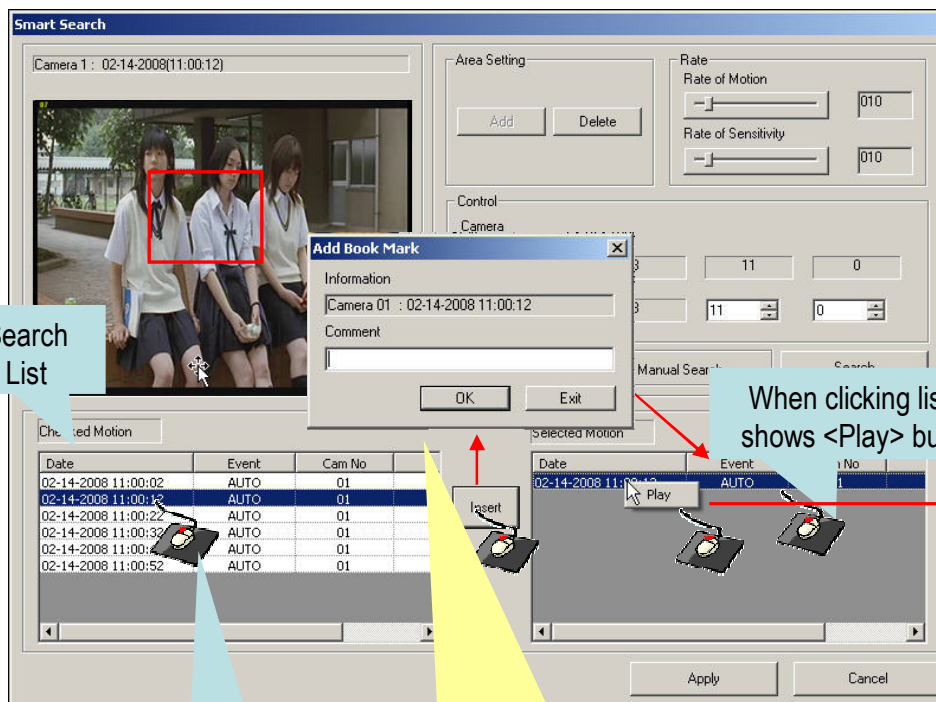
Save auto searched <Detected Motion> to bookmark

Bookmark List

Search

Auto search: Save automatically detected Video in Bookmark list..  
Manual search: Ask users to save <searched Video data> before saving in Bookmark list

### Smart- Search(2)



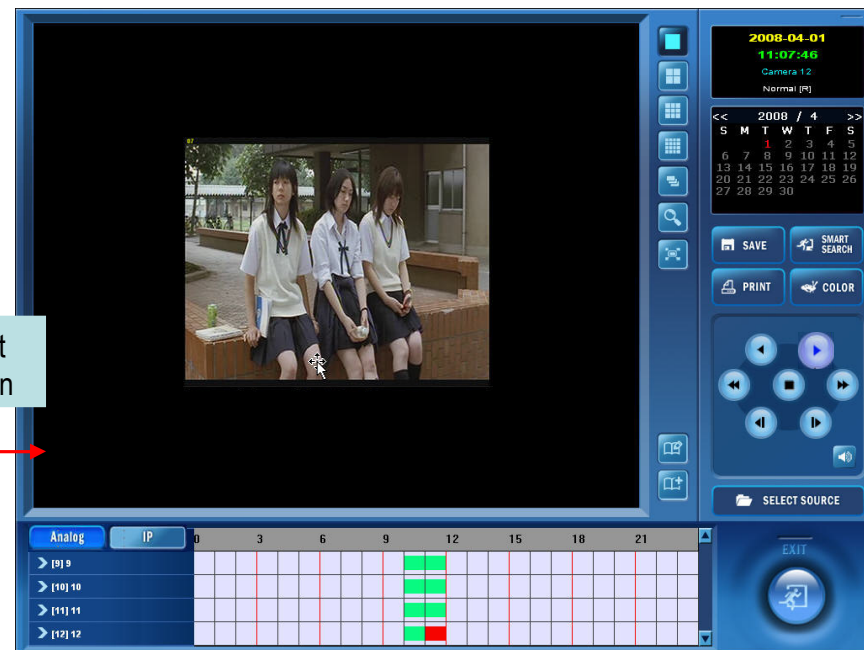
Auto-Search  
Data List

When Clicking, it  
playback

Save auto searched <Detected Motion> to  
bookmark

When clicking list, it  
shows <Play> button

<Playback>



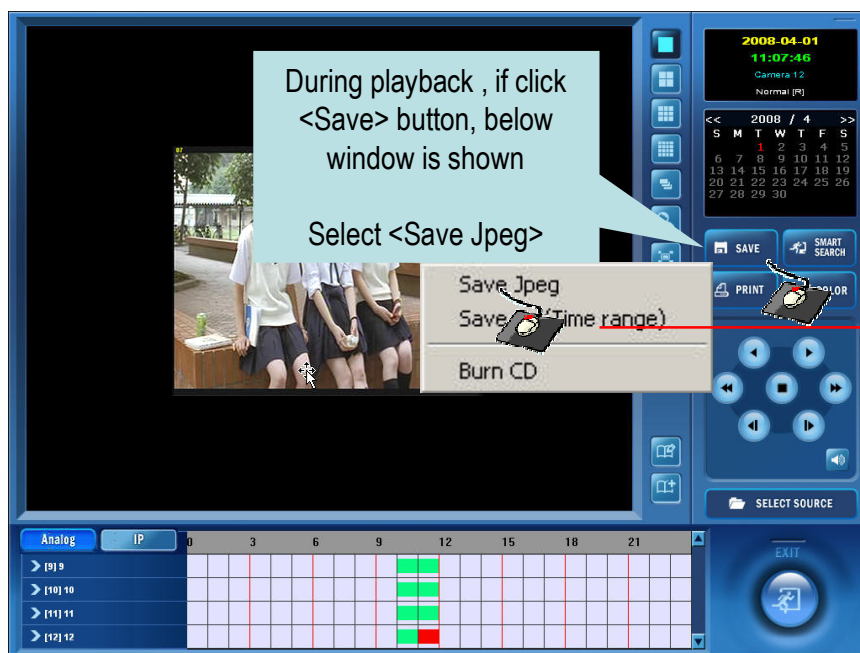
<N.B> In <Manual search>, whenever searched data comes,  
it asks to <Add bookmark> window displays every time.

### Save As <Jpeg or AVI> File



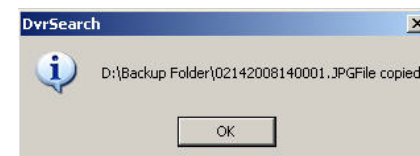
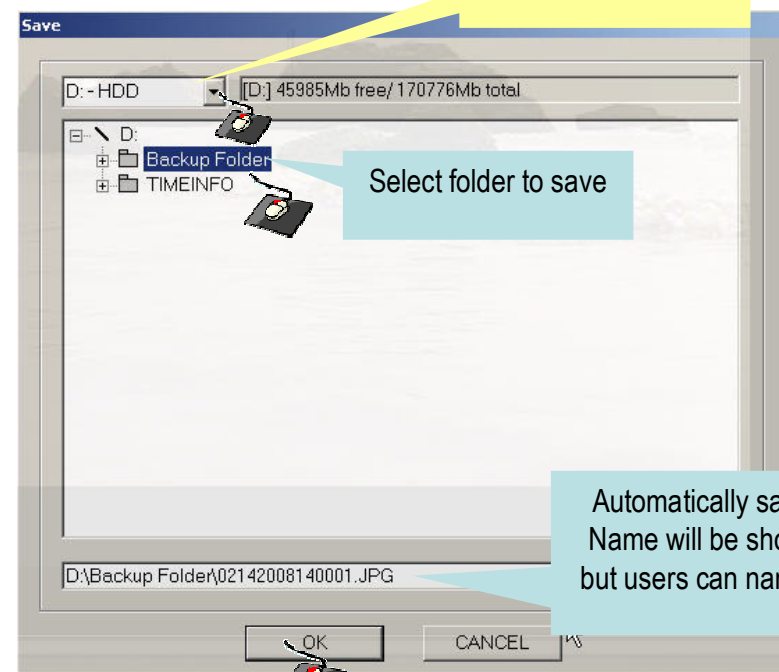
Can save searched Data as Jpeg or AVI file

To save (JPEG, AVI)



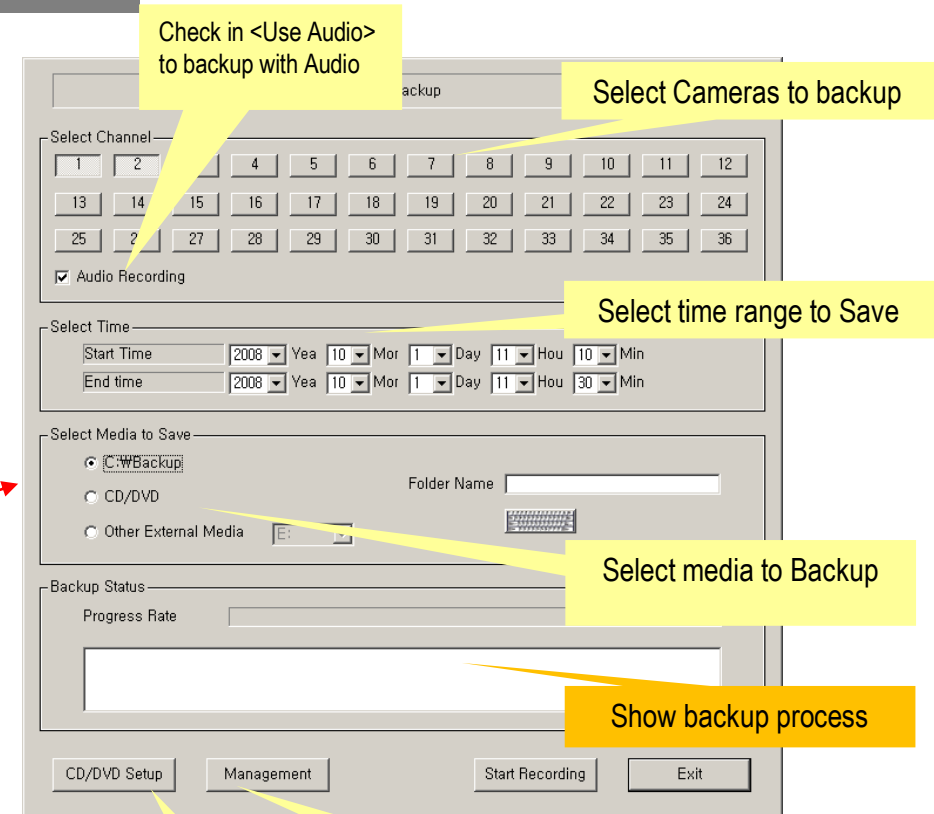
<Save as JPEG >

Select Drive to save



### Save As <Jpeg or AVI> File

To save as <AVI > file



<N.B> Audio Synchronization Function

Audio synchronization with Video is done automatically.

But this is done when at least 1 fps is saved,. So users have to save at least 1 fps.

So in Motion Recording..Audio Synchronization can not be perfect.

Manage Backup data directory or data file.

Select only CD/DVD backup.

### Save As <Jpeg or AVI> File

#### To save as <AVI > file

1 Select cameras to make AVI backup

2 Check in <Use Audio> to backup with Audio

3 Select Backup media

Select Time

Start Time: 2008 Yea 10 Mor 1 Day 11 Hou 10 Min

End time: 2008 Yea 10 Mor 1 Day 11 Hou 10 Min

Select Media to Save

☒ C:\Backup

☐ CD/DVD

☐ Other External Media

Folder Name:

4 Start

<N.B> Backup Media

Default: Backup in the root, C:\\_backup in Local HDD  
(Can be used again)

CD/DVD: CD R/RW, DVD R/RW

External: Backup in USB external HDD or other external storage.

AVI Backup

Select Channel

☒ Audio Recording

Select Time

Start Time: 2008 Yea 10 Mor 1 Day 16 Hou 43 Min

End time: 2008 Yea 10 Mor 1 Day 16 Hou 44 Min

Select Media to Save

☒ C:\Backup

☐ CD/DVD

☐ Other External Media

Folder Name: 20081001.avi

Backup Status

Progress Rate

Camera 1 - Save success

CD/DVD Setup Management Start Recording Exit

Show backup process

<N.B> When users named the folder , all backup files are saved in the <time/date> folder when backup. In this <time/date> folder, all backup data are saved as <time/date>.file.

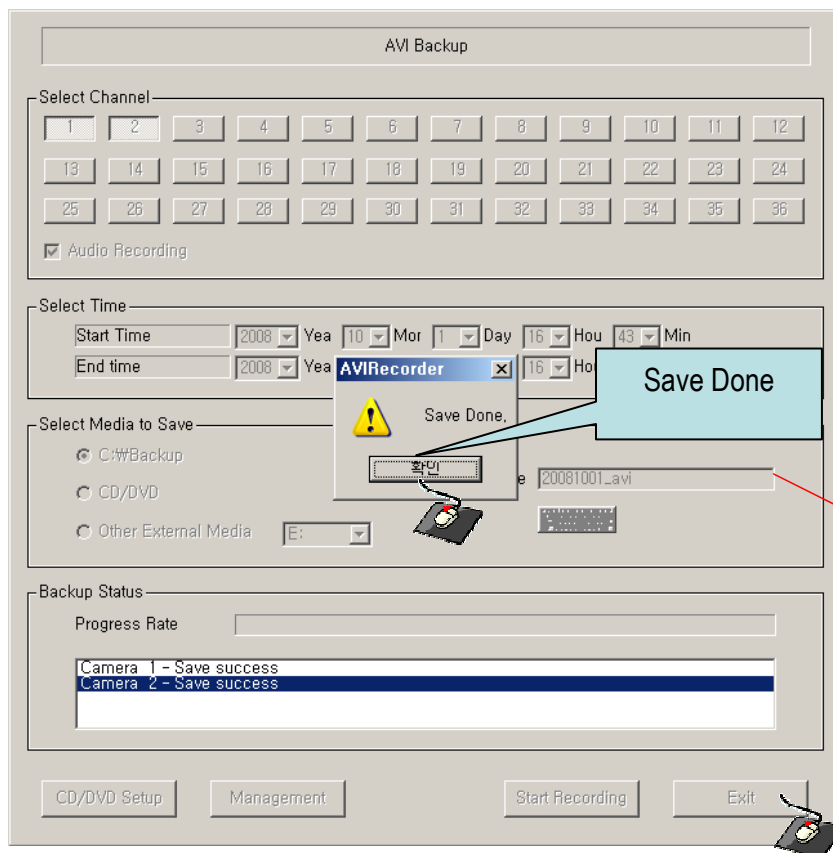
When users did not name the folder , <time/date> folder is made and in this all data are saved , all backup data are saved as <time/date>.file.



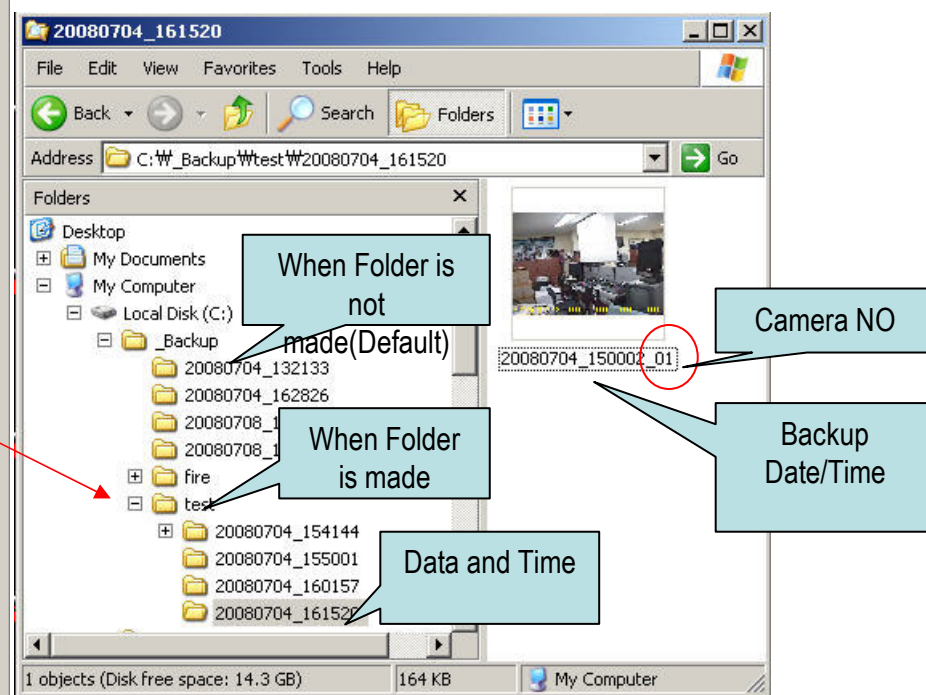
### Save As <Jpeg or AVI> File

To save as <AVI > file

To backup to External Drive



Backup the data in C:\program files\\_backup backup data



### Save As <Jpeg or AVI> File

To save as <AVI > file

Setup in CD/DVD

AVI Backup

Select Channel: 1, 13, 25

Device: F: HL-DT-ST CD-RW GCE-8527B 1.02

Disk Save: ☒ Use

Save

Select Media to Save:

- ☐ C:\Backup
- ☒ CD/DVD
- ☐ Other External Media

Folder Name: 20081001.avi

Backup Status:

Progress Rate:

Camera 1 - Save success  
Camera 2 - Save success

CD/DVD Setup Management Start Recording Exit

To save always the data in HDD as default after Backup (C:\\_backup )

### Backup Data Management

AVI Backup

Free Space: 16,972 MB

Data List:

Data	Size
20080609_152608	18,292 KB
20080814_104108	0 KB
20080818_144031	15,938 KB
20080818_144556	16,096 KB
20080825_154505	4,576 KB
AVI	2,342 KB
AVI_Backup	4,810 KB
backup	3,037 KB

Copy

Delete

Exit

Progress Rate:

CD/DVD Setup Management Start Recording Exit

Copy to other directory

Delete selected directory or file.

This the default directory data in (C:\\_backup ), users can manage (copy/delete data) as user want.

### Backup in CD/DVD

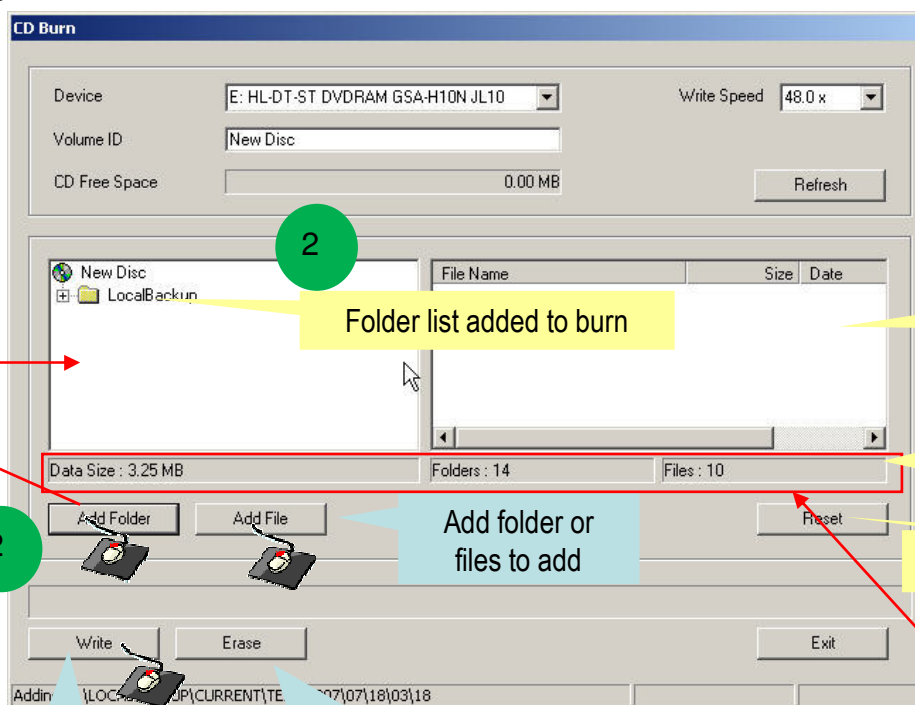
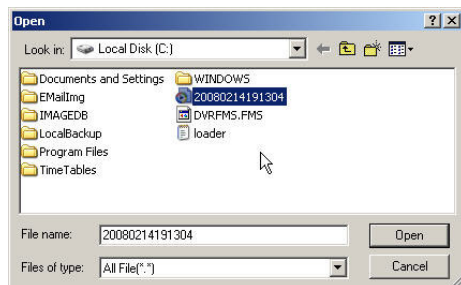
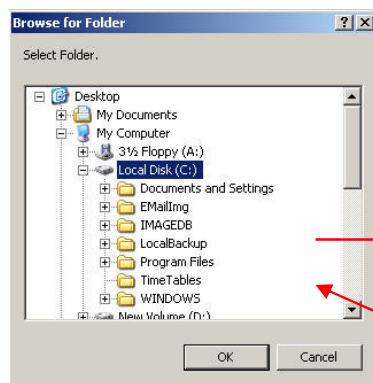
Have its own tool to save data in CD/DVD

(To burn CD, have to save files in HDD first like previous page)

1



Select <Burn CD>



2

Folder list added to burn

File list added

Information for folder, and file size and No

Reset added files

Add folder or files to add

Write

To delete data in CD-RW, DVD-RW media

<N.B> Check the file size to burn in CD before Burn in CD and burn.

### Image Tool



Can control Image quality and playback

Click <Color> to image



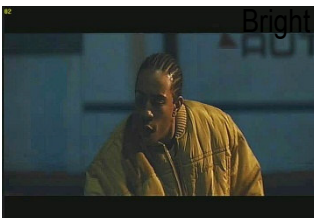
Bright



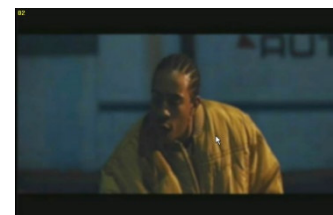
Contrast



Hue



Sharpness



Blur



Black/White

2

Image Tool

### Manual Backup in Live View Window

Backup the data easily by Camera/Date/Hour/Minute

This is convenient to backup small data at once. (Operates the same as AVI Backup)

The screenshot shows the 'Manual Backup' window in the Securus DVR interface. The window is divided into several sections:

- Select Camera:** A grid of 36 buttons representing cameras 1 through 36. A red arrow points from the text 'Select cameras to backup' to this section.
- Select Time:** Fields for Start Time and End Time, each with dropdowns for Year, Month, Day, Hour, and Minute. A red circle highlights the Hour and Minute dropdowns, with a red arrow pointing from the text 'Select Y/M/D/H/M' to it.
- Select Media to Backup:** Radio buttons for 'C:\WBBackup (Default)', 'Other External Media', and 'CD/DVD'. A red arrow points from the text 'Select backup media' to the 'CD/DVD' option.
- Backup Status:** A section for 'Progress Rate' and a large empty box for status information.
- Buttons:** 'CD/DVD Setup', 'Management', 'Start Backup', and 'Exit'. A red box highlights 'CD/DVD Setup' and 'Management'. A red arrow points from the text 'Refer to AVI save' to the 'CD/DVD Setup' button.

The background shows the 'SERVANTEC' live view window with a camera list on the right and a bottom toolbar with buttons for DATE TIME, AUDIO, COLOR, W OTHER, INFO, BACK UP, and CD BURN.

During this backup to CD/DVD, Backup Viewer is automatically copied together.

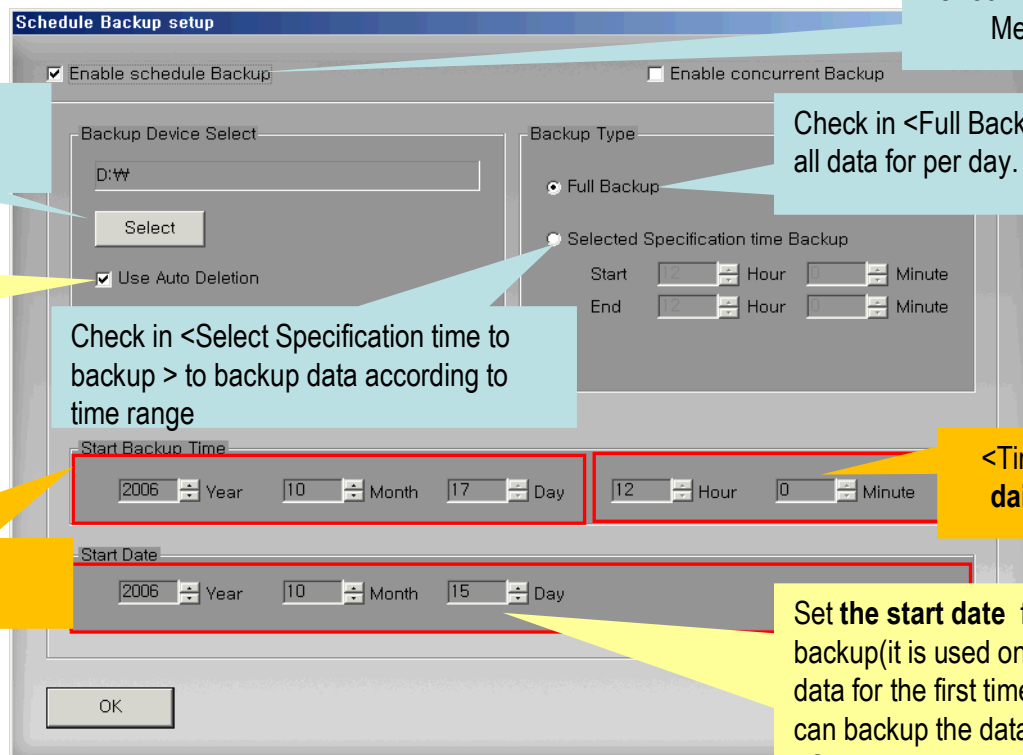
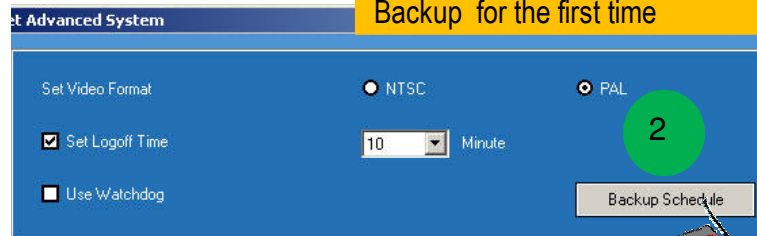
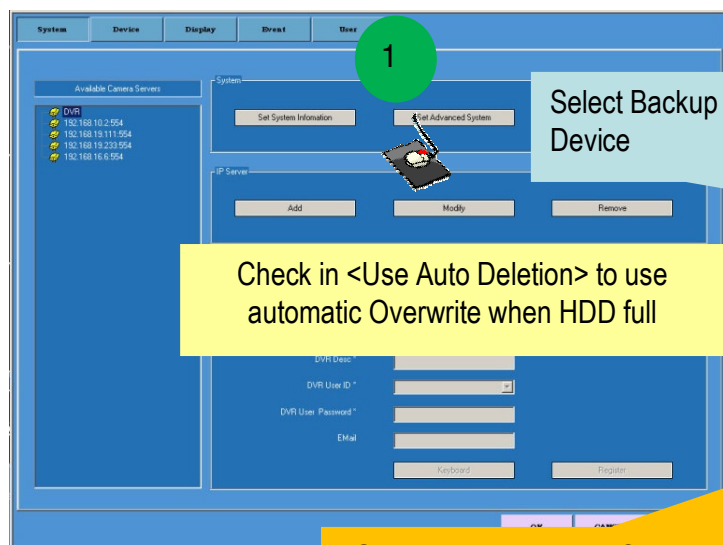
To view data, please use this.



### Schedule Backup

SETUP

Go to <Setting => System => Set Advanced System>  
Can backup the data to select Device on Schedule



Check in Backup Method

Check in <Full Backup> to backup all data for per day.

Check in <Select Specification time to backup > to backup data according to time range

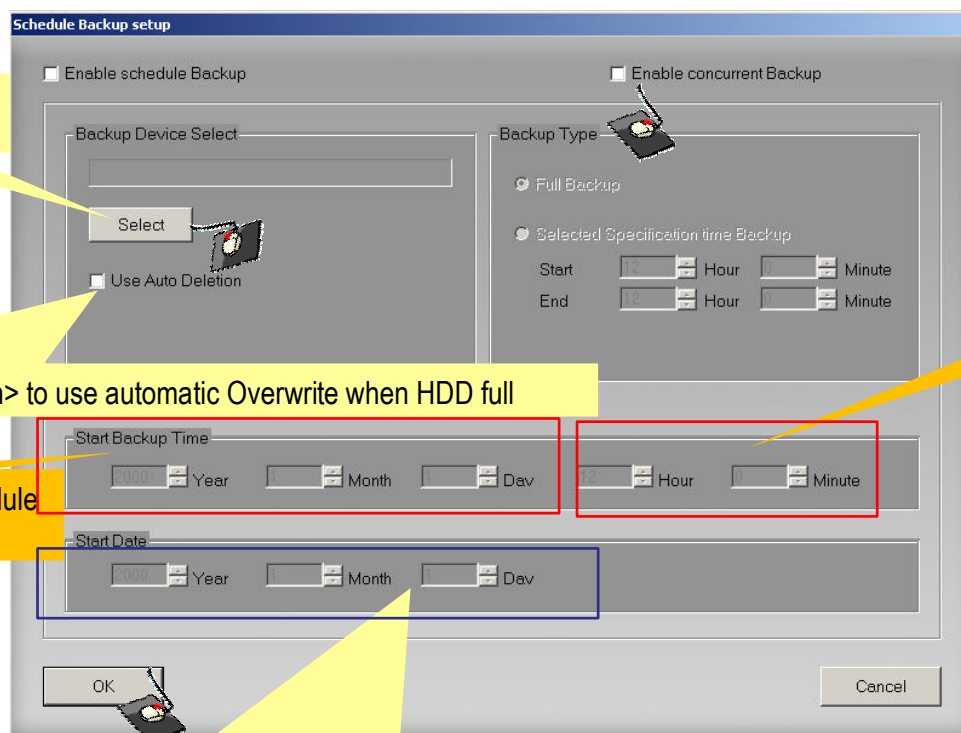
<Time> to start daily backup

<Start Date> to start <Schedule Backup> for the first time

Set the start date for data to backup(it is used once to backup data for the first time). By this you can backup the data before Backup <Start Date>  
After this , backup start daily based on daily backup time

### Concurrent Backup

<Concurrent Backup> starts backup automatically to selected Drive when one DB basket is full (1 X ImageDB 1 (100MB) becomes 100MB, so simply it starts backup <Basket. to Basket> )



Select Drive to backup

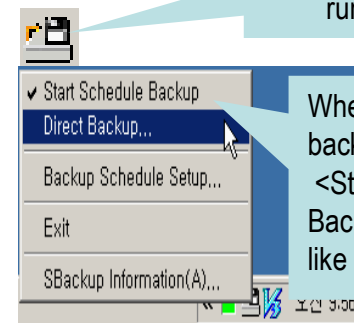
Check in <Use Auto Deletion> to use automatic Overwrite when HDD full

<Start Date> to start <Schedule Backup> for the first time

Set the start date for data to backup(it is used once to backup data for the first time). By this you can backup the data before Backup <Start Date> After this , backup start daily based on daily backup time

<Time> to start daily backup

In PC <Tray Bar> Sbackup Icon is running



When <Schedule backup> is setup <Start Schedule Backup> is checked like this

<N.B> Not check in <Start Schedule Backup>, <Start Schedule Backup> does not work.

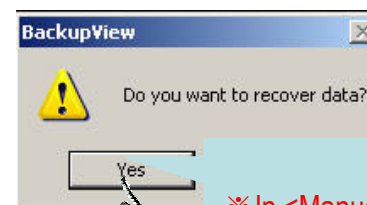
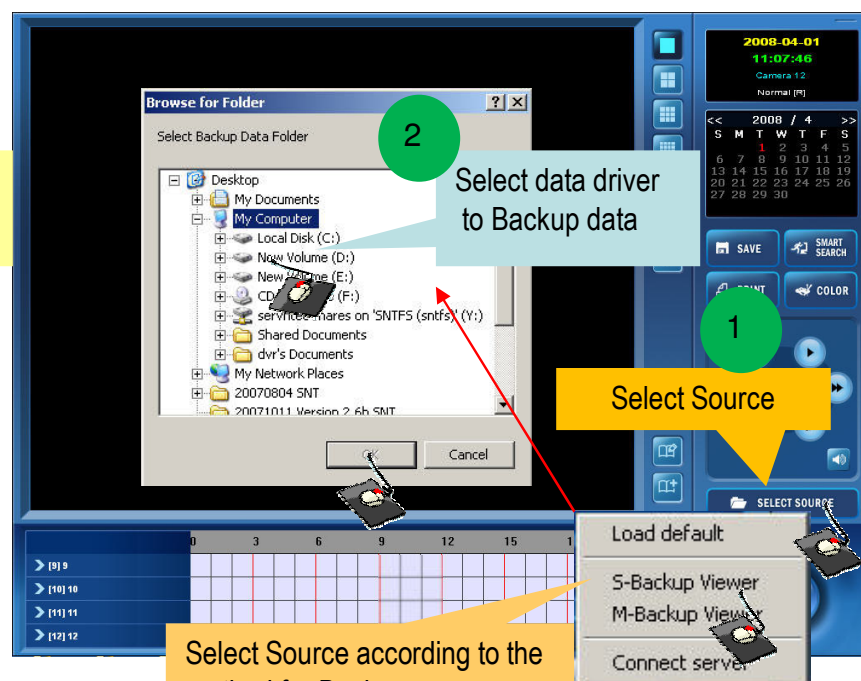
### View backup data by <Backup Viewer>



<Backup View> is used to search and playback all the data by <Manual, Schedule, Direct , Summer time Backup> and <direct DAT file copy> in Image DB (in maintenance mode)  
For this users have to install <Backup Viewer Package>.



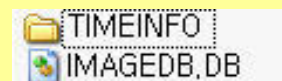
double click  
Backupview



※ In <Manual Backup> , no need to recovery.



<N.B>When <Recovery> is done, 2 files below are made.



### View backup data by <Backup Viewer>

Search method is the same as <Local Search>.

N.B Different things : Select folder button for recovery and AVI backup.



※ When once <DATA> is Recovery, no need to backup, when there is no change. But any changes in data or driver (for backup), have to recover again.

※ To move and copy to <Recovered backup data > to other Disk or Driver, users have to <Recover> it.  
(Manual backup Data : No need to Recover)

### System Setup

SETUP

Go to <Setup=> System> (General DVR System Setup)

System Information

Video format, Logoff time, watch dog, etc

Network Port Setup

General DVR System Setup

Setup IP Product

Dynamic IP Setup for Web DVR and NCMS

Advanced Setup

Available Camera Servers

- DVR
- 192.168.10.2:554
- 192.168.19.111:554
- 192.168.19.233:554
- 192.168.16.6:554

System

Set System Information

Set Advanced System

Set Advanced Network

IP Server

Add

Modify

Remove

Dynamic IP

☐ Use

Member ID \*

Member Password \*

DVR Desc \*

DVR User ID \*

DVR User Password \*

OK

CANCEL

APPLY

Show connected PC BD and IP products information.



### System Setup

Go to <Setup=> System> (General DVR System Setup)

The screenshot displays the 'System Setup' interface with three overlapping windows:

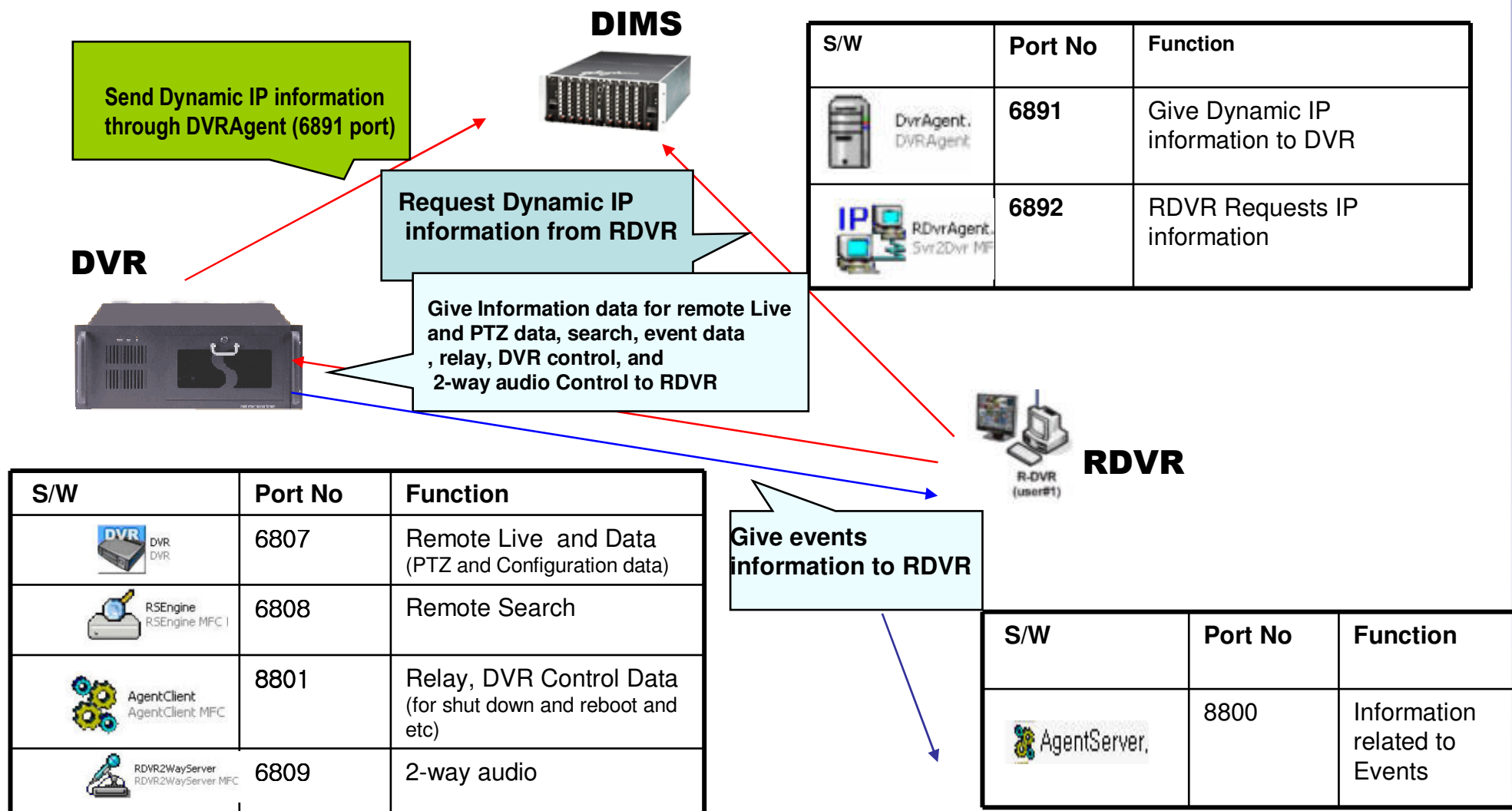
- System Information** (top left):
  - System Name: DVR
  - Admin Name: [Empty]
  - Admin TelNo: [Empty]
  - Buttons: Keyboard, Save, Close
- Set Advanced System** (bottom left):
  - Set Video Format: ☐ NTSC ☒ PAL
  - Set Logoff Time: ☒ Set Logoff Time [10] Minute
  - Use Watchdog: ☐ Use Watchdog
  - Buttons: Backup Schedule, Save, Close
- Set Advanced Network** (right):
  - Live Connect: ☐ Use Network Connect
  - Set Bandwidth: Full (dropdown menu open showing options: Full, Half, 1/4, 1/8, 1/16, 1/32)
  - Live Port: 6807
  - Playback Port: 6808
  - Web Port: 6880
  - 2WayAudio Port: 6809
  - Agent Port: 8801
  - Buttons: Virtual Keyboard, Save, Close

Yellow callout boxes provide additional context:

- DVR System Information** points to the System Information window.
- Set frames according to Network Bandwidth** points to the Set Bandwidth dropdown menu.
- DVR Port Setup** points to the Agent Port field.

<N.B> When users do not check in <Set Logout Time>, users have to <Log-out> manually (by clicking <log-out> button, when want to log-out).

### System Setup: Port Setup

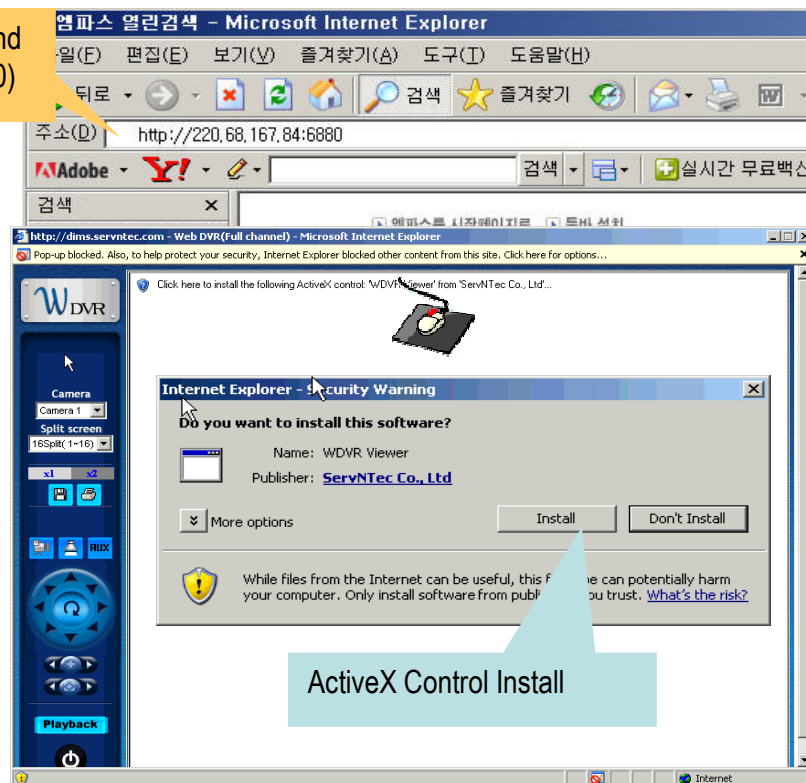


Each SW exchanges these kind information through each port

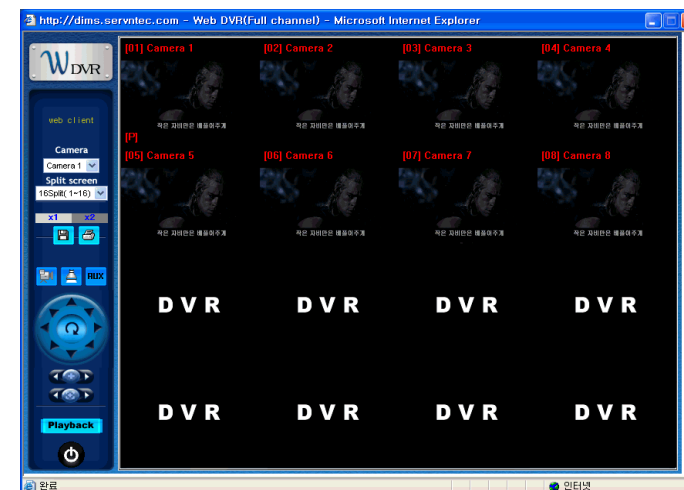
## System Setup: Direct Web

Enter Fixed IP in Web Browser (Direct Web)

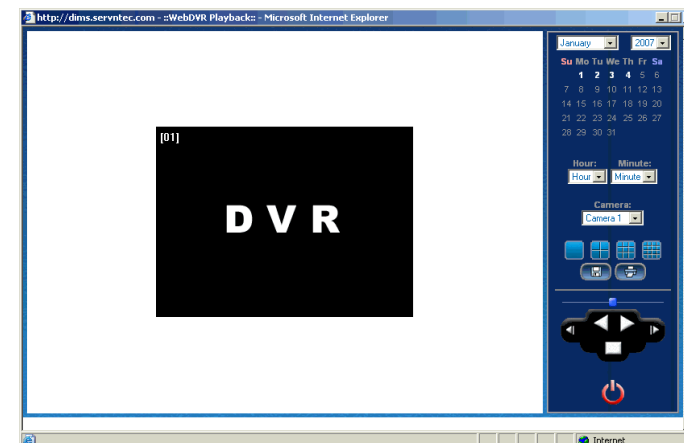
Enter DVR IP and  
Web port (:6880)



## <Live View in WEB DVR>



## <Search in WEB DVR>



### System Setup: IP Product Setup(Fixed IP)

To add IP product and setup <IP Product> (Video server, IP camera)

In case IP products using fixed IP

1 Add IP server

2 Check in Fixed IP

Enter IP address

Select Video server Model

Video server Description

Video server Login ID, Password

Video format

Video server Port

<N.B> To change IP in Video Server, users have to use Vendor's IP tool.  
In our systems, can not change it.  
For more detail, please refer to IP Setup manual and chapter.

### System Setup: IP Product Setup(Fixed IP)

System   Device   Display   Event   User

Available Camera Servers

- DVR
- vs1 (192.168.10.2:554)
- vs2 (192.168.19.111:554)
- vs3 (192.168.19.233:554)
- vs4 (192.168.16.6:554)

System

Set System Information   Set Advanced System   Set Advanced Network

IP Server

Add   Modify   Remove

Dynamic IP

☒ Use

Member ID \*   test

Member Password \*  

DVR Desc \*   vs

DVR User ID \*   guest

DVR User Password \*  

EMail   nklee

Keyboard   Register

OK   CANCEL   APPLY

<N.B> How to setup and add IP in Fixed IP

- 1 Setup Network by .<Ipadmin tool>
2. Setup Network information in DVR setup



### System Setup: IP Product Setup(Dynamic IP)

To add IP product and setup <IP Product> (Video server, IP camera) in Dynamic IP

Can use <Dynamic IP> through common DDNS service DDNS ( [www.noip.com](http://www.noip.com) or [www.dyndns.com](http://www.dyndns.com) )

**System Setup: IP Product Setup(Dynamic IP)**

To add IP product and setup <IP Product> (Video server, IP camera) in Dynamic IP

Can use <Dynamic IP> through common DDNS service DDNS ( [www.noip.com](http://www.noip.com) or [www.dyndns.com](http://www.dyndns.com) )

**Video Server Informations**

**IP Type**

- ☐ Fixed IP
- ☒ Dynamic IP

**IP Address**

IP Address: 0 . 0 . 0 . 0

User ID for DDNS:

Password for DDNS:

Port: 554

**IP Server**

Video Server Model: SVE1000

Description: vs4

User ID for VS: root

Password for VS:

Video Format: ☒ NTSC ☐ PAL

**Callouts:**

- 1: Add IP server
- 2: Check in Dynamic IP
- Enter Hostname: tizon.dvr.dns.org
- Enter Video server Port: 554
- Select Video server Model: SVE1000
- Video server Description: vs4
- Video server Login ID, Password: root
- Video format: NTSC

### System Setup: IP Product Setup(Dynamic IP)

To add IP product and setup <IP Product> (Video server, IP camera) in Dynamic IP

The screenshot shows the 'System Setup' window with tabs for System, Device, Display, Event, and User. The 'System' tab is active. On the left, under 'Available Camera Servers', a list of servers is shown: vs1 (192.168.10.2:554), vs2 (192.168.19.111:554), vs3 (192.168.19.233:554), and vs4 (tizon.dvndns.org:554). An orange callout bubble points to this list with the text 'Added Video server information'. The main area has three sections: 'System' with buttons 'Set System Information', 'Set Advanced System', and 'Set Advanced Network'; 'IP Server' with buttons 'Add', 'Modify', and 'Remove'; and 'Dynamic IP' with a 'Use' checkbox checked and fields for Member ID (\*), Member Password (\*), DVR Desc (\*), DVR User ID (\*), DVR User Password (\*), and EMail. At the bottom right of the Dynamic IP section are 'Keyboard' and 'Register' buttons. At the very bottom of the window are 'OK', 'CANCEL', and 'APPLY' buttons.

#### <N.B> How to setup and add IP in Dynamic IP

1. Register in [www.dyndns.com](http://www.dyndns.com) or , [www.noip.com](http://www.noip.com)

<When using Dynamic IP directly for IP product>

2. Use [Setup Network by using <Vendor IP tool>] or enter Dynamic IP information registered in [www.dyndns.com](http://www.dyndns.com) or [www.noip.com](http://www.noip.com)

<When using Router>

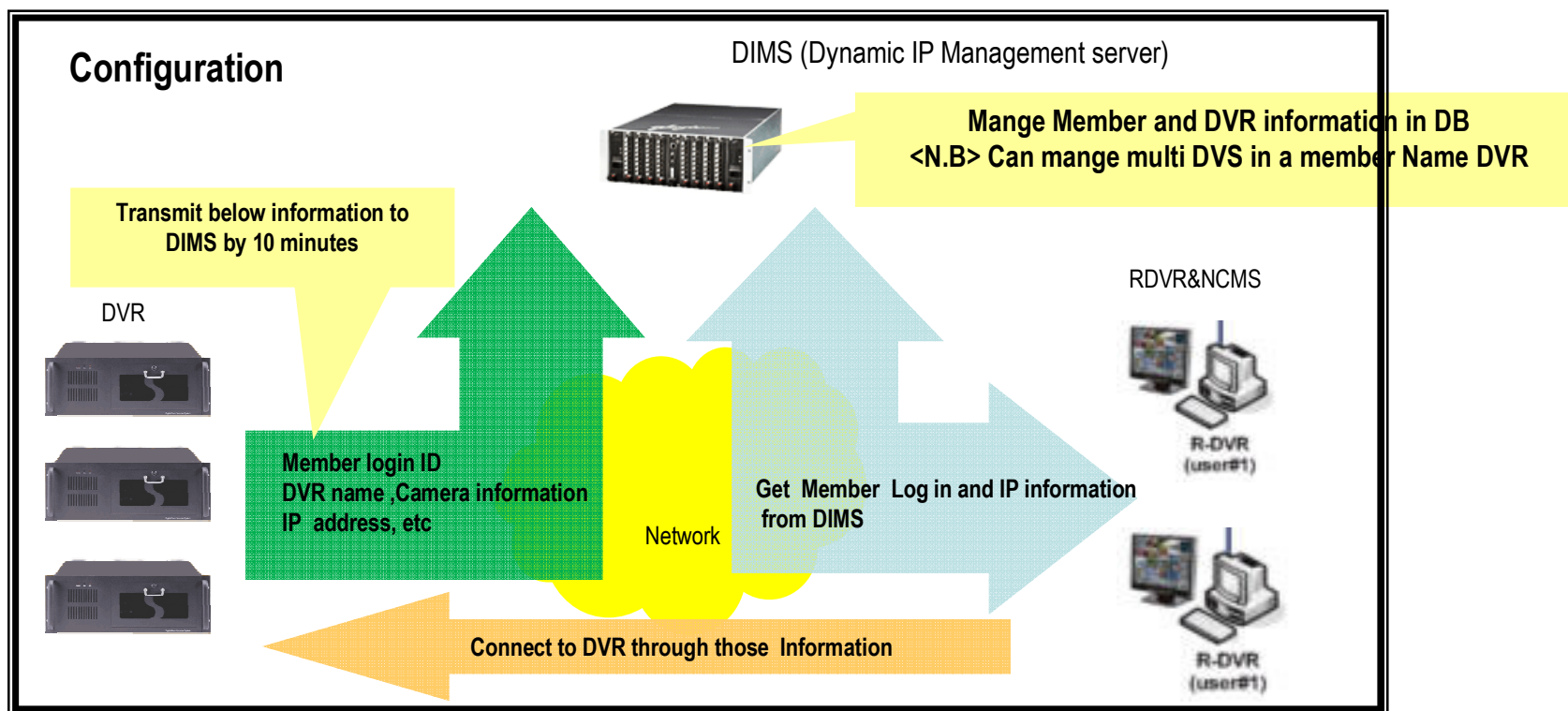
2. Go to IP router an setup < Dynamic DNS Host >  
2-1.Have to make IP Products Fixed IP using Vendor IP Setup tool and setup that by <admintool> too.

5. Setup Network information in DVR setup

### System Setup: Setup DVR in Dynamic IP(DIMS)

To setup Dynamic IP (DIMS)

#### Understand SNT DIMS (Dynamic IP Management Server)



<N.B> Two way to register in DIMS server

1. Go to [www.dvrDNS.biz](http://www.dvrDNS.biz) and register Member ID/PWD
2. In Securus setup and register in system tab.

### System Setup: Setup DVR in Dynamic IP(DIMS)

To Setup DVR first in Dynamic IP

In case using Dynamic IP for DVR (Direct Registration and Setup in DVR), Go to System Tab, and setup like below

The screenshot shows the 'System' tab of the DVR setup interface. On the left, under 'Available Camera Servers', there is a list of servers: 'DVR', 'vs1 (192.168.10.2:554)', 'vs2 (192.168.19.111:554)', 'vs3 (192.168.19.233:554)', and 'vs4 (tizon.dvrDNS.org:554)'. The 'DVR' entry is highlighted with a red box. A callout points to this box with the text 'Have to check in <Use Box>'. The main area is divided into three sections: 'System' with buttons 'Get System Information', 'Set Advanced System', and 'Set Advanced Network'; 'IP Server' with buttons 'Add', 'Modify', and 'Remove'; and 'Dynamic IP' which is highlighted with a red border. Inside the 'Dynamic IP' section, there is a 'Use' checkbox which is checked. Below it are several input fields: 'Member ID \*' (containing 'test'), 'Member Password \*', 'DVR Desc \*' (containing 'vs'), 'DVR User ID \*' (a dropdown menu showing 'guest'), 'DVR User Password \*', and 'Email' (containing 'nklee'). A callout points to the 'Member ID' field with the text 'Member ID/PWD to log in to DIMS web site (www.dvrDNS.biz) (If not registered, automatically make it for first users..there is no need to register in DIMS web site.)'. Another callout points to the 'DVR Desc' field with the text 'DVR Name to identify'. A third callout points to the 'Email' field with the text 'Email address for registered users'. At the bottom of the 'Dynamic IP' section are buttons 'Keyboard' and 'Register'. A callout points to the 'Register' button with the text 'Click Register'. At the very bottom of the interface are buttons 'OK', 'CANCEL', and 'APPLY'.

<N.B> For this, Network setup has to be done in DVR system and DNS has to be setup first

<N.B> All character in these form has to be within 10 characters. If not, <Format Error> message will be shown.

Member ID/PWD to log in to DIMS web site ([www.dvrDNS.biz](http://www.dvrDNS.biz))  
(If not registered, automatically make it for first users..there is no need to register in DIMS web site.)

DVR Name to identify

User Name for DVR and PWD to log-In  
When already registered, PWD is made automatically

Click Register

### System Setup: Register in DIMS to use Dynamic IP

#### Register in DIMS

Go to <http://www.dvrdns.biz> and register as <member> and <password> (DIMS User)

Click <DVR Web Monitor> to monitor or register as <Member>

Fill in needed information

For new Member, click <DVR Member Registration>

Web DVR Ver3.0 - Microsoft Internet Explorer

파일(F) 편집(E) 보기(V) 즐겨찾기(A) 도구(T) 도움말(H)

뒤로 뒤로 다음 검색 즐겨찾기 실행시간 무료백신

주소(D) http://www.dvrdns.biz/

<< DVR web monitor(Member only) >>

다음 내용을 포함하는 웹 페이지 검색:

제공: Live Search

완료

Member login(Ver 2.0)

Member ID

Password

Ok Cancel

< DVR member registration >

DVR member Reg. - Microsoft Internet Explorer

DVR member Registration

(\*) = A required item.

\* Member ID ID check

\* Password

\* Full name

\* E-mail

Company

Address Find zipcode

Phone no.

\* Cellular phone

Registration Clear

Back

Success message

Microsoft Internet Explorer

Thank you for the membership registration.  
Your information mail is sent you now to your registered mail address.

OK



### System Setup: Register in DIMS to use Dynamic IP

To register and setup by <Member ID and PWD> registered in DIMS

The screenshot shows the 'System' tab selected in the top navigation bar. On the left, under 'Available Camera Servers', there is a list of servers including 'DVR', 'vs1 (192.168.10.2:554)', 'vs2 (192.168.19.111:554)', 'vs3 (192.168.19.233:554)', and 'vs4 (tizon.dvrdns.org:554)'. The main area is divided into three sections: 'System' with buttons for 'Set System Information', 'Set Advanced System', and 'Set Advanced Network'; 'IP Server' with buttons for 'Add', 'Modify', and 'Remove'; and 'Dynamic IP' which is highlighted with a red box. The 'Dynamic IP' section contains a 'Use' checkbox (checked) and a series of input fields: 'Member ID \*' (containing 'test'), 'Member Password \*', 'DVR Desc \*' (containing 'vs'), 'DVR User ID \*' (a dropdown menu showing 'guest'), 'DVR User Password \*', and 'Email' (containing 'nklee'). Below these fields are buttons for 'Keyboard', 'OK', and 'CANCEL'. Five callout boxes provide instructions: 1. 'Member ID/PWD to log in to (If not registered, automatically make it for first users..)' pointing to the Member ID and Password fields. 2. 'DVR Name to identify' pointing to the DVR Desc field. 3. 'User Name for DVR When already registered, PWD is made automatically' pointing to the DVR User ID field. 4. 'Click Register' pointing to the OK button. 5. A callout for the 'DVR User Password' field is present but lacks text.

System

Device

Display

Event

User

Available Camera Servers

- DVR
- vs1 (192.168.10.2:554)
- vs2 (192.168.19.111:554)
- vs3 (192.168.19.233:554)
- vs4 (tizon.dvrdns.org:554)

System

Set System Information

Set Advanced System

Set Advanced Network

IP Server

Add

Modify

Remove

Dynamic IP

☒ Use

Member ID \* test

Member Password \*

DVR Desc \* vs

DVR User ID \* guest

DVR User Password \*

Email nklee

Keyboard

OK

CANCEL

Member ID/PWD to log in to  
(If not registered, automatically make it for first users..)

DVR Name to identify

User Name for DVR  
When already registered, PWD is made automatically

Click Register

### System Setup: Setup DVR and Registration in DIMS to use Dynamic IP(WEB DVR)

To Setup DVR and registration in DIMS

In case DVR using Dynamic IP

System | Device | Display | Event | User

Available Camera Servers

- DVR
- vs1 (192.168.10.2:554)
- vs2 (192.168.19.111:554)
- vs3 (192.168.19.233:554)
- vs4 (tizon.dvrdsn.org:554)

System

Set System Information | Set Advanced System | Set Advanced Network

IP Server

Add | Modify | Remove

Dynamic IP

☒ Use

Member ID \* test

Member Password \*

DVR Desc \* vs

DVR User ID \* guest

DVR User Password \*

E-Mail nklee

Keyboard | Register

OK | CANCEL | APPLY

Have to enter the same <Member IP and password > in DIMS and DVR

Member login(Yer 2.0)

Member ID

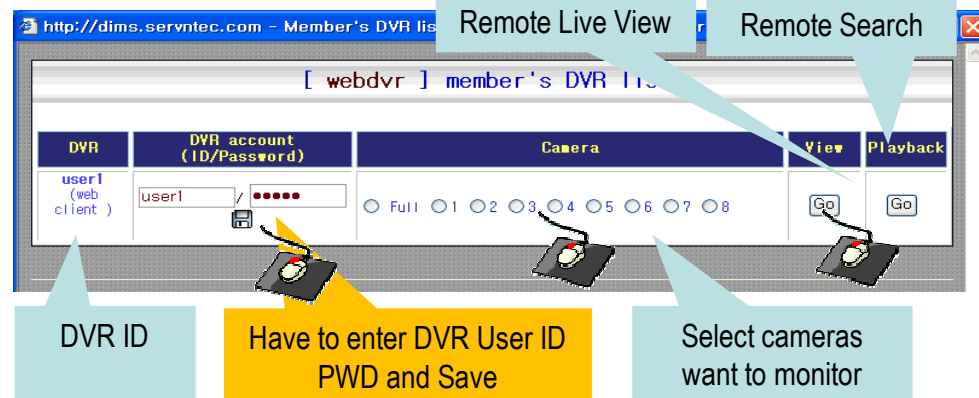
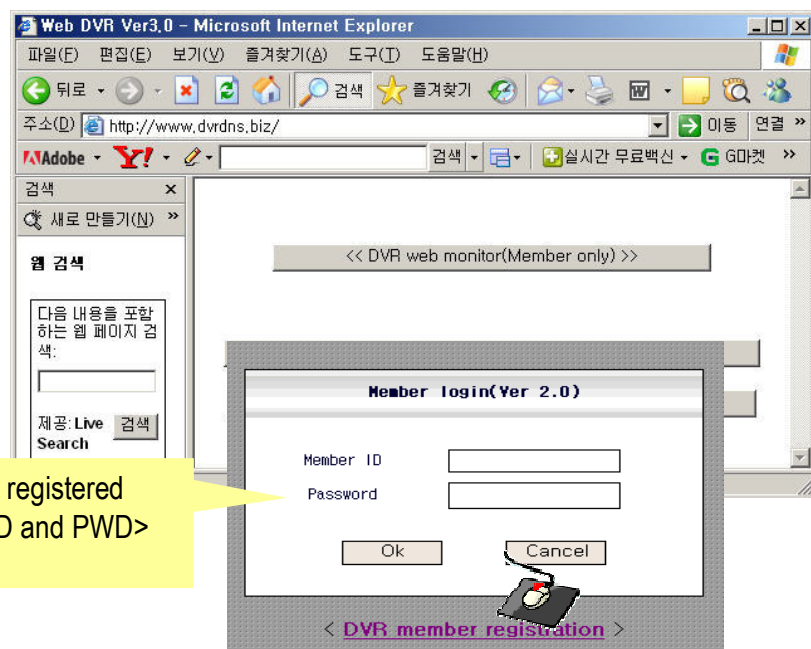
Password

Ok | Cancel

< [DVR member registration](#) >

### System Setup: Log into DIMS and use WEB DVR(WEB Client)

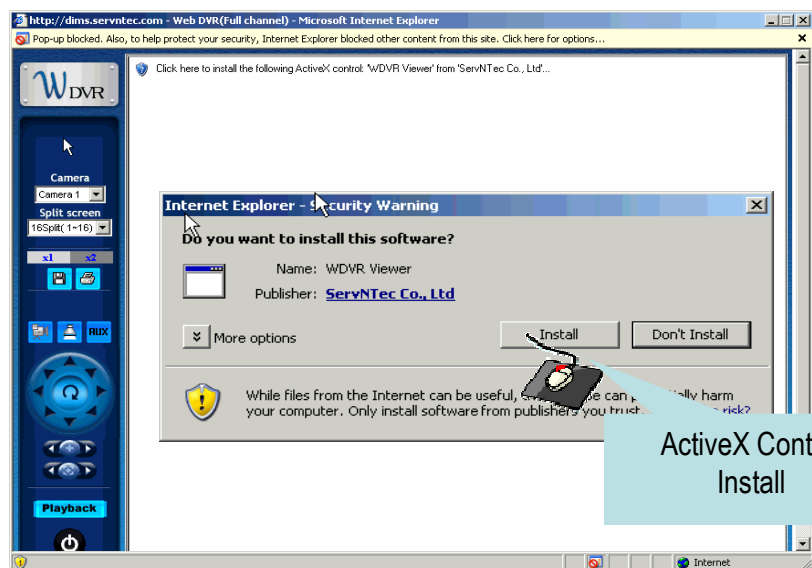
Log into DIMS and monitor DVRs by Web Brower (Internet Explorer only) (WEB DVR)



DVR	DVR account (ID/Password)	Camera	View	Playback
basic2000 (test )	<input type="text"/> / <input type="password"/>	<input type="radio"/> Full	Off	Off
bechoi (bechoila )	<input type="text"/> / <input type="password"/>	<input type="radio"/> Full	Off	Off
comart ( )	<input type="text"/> / <input type="password"/>	<input type="radio"/> Full	Off	Off
dvr3 (servntec dvr )	<input type="text"/> / <input type="password"/>	<input checked="" type="radio"/> Full	Off	Off
hb36 (pcl )	<input type="text"/> / <input type="password"/>	<input type="radio"/> Full <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 <input type="radio"/> 6 <input type="radio"/> 7 <input type="radio"/> 8 <input type="radio"/> 9 <input type="radio"/> 10 <input type="radio"/> 11 <input type="radio"/> 12 <input type="radio"/> 13 <input type="radio"/> 14 <input type="radio"/> 15 <input type="radio"/> 16	Off	Off

OFF: DVR is <Power off> or <Network is dead>.

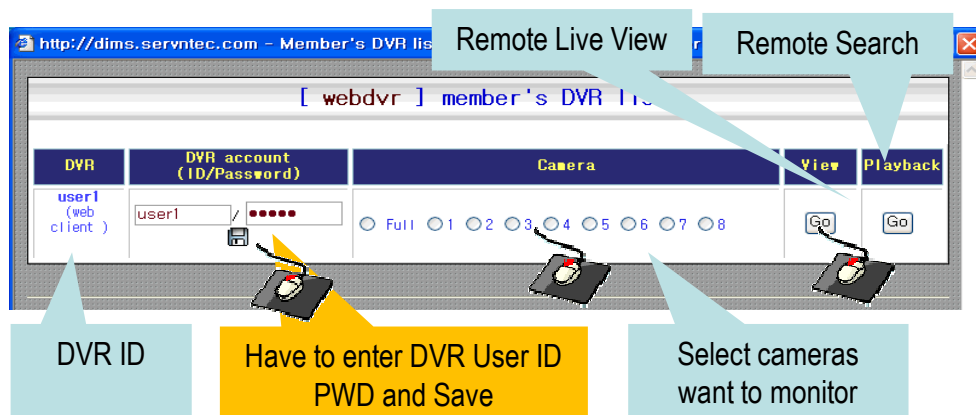
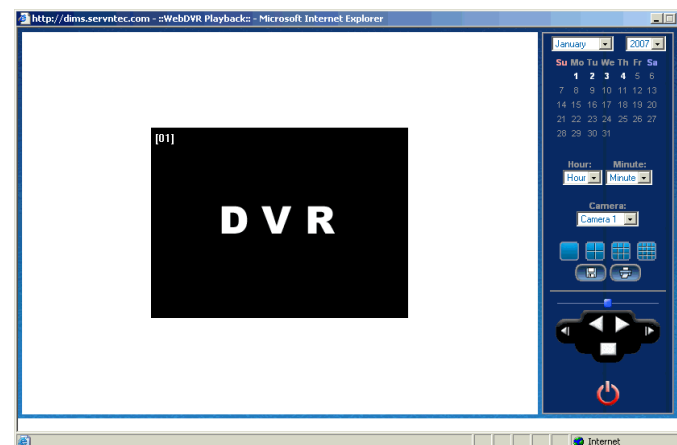
### System Setup: Log into DIMS and use WEB DVR(WEB Client)



### <Live View in WEB DVR>



### <Search in WEB DVR>



### System Setup: Device Setup

SETUP

Go to <Setup=> Device>

Setup Camera and Video information.  
Setup Alarm In/Out (Sensor, Relay) information

Check in Device to setup

Connected Camera and  
IP product information in  
Menu Tree

Sensor Setup

Recording Resolution, Image Quality,  
Frame rate(fps) **per camera**

Camera Setup  
PTZ Setup  
Audio Setup  
Recording Schedule  
Motion Detection Setup

Relay Setup

The screenshot shows the 'System Setup: Device Setup' window. The 'Device' tab is selected. On the left, under 'Device', the 'Camera' radio button is selected. Below it is a tree view showing a list of devices (DVR, 1-27). The main area is divided into sections: Camera (with checkboxes for Use Camera, Resolution, Image Quality, Frame Rate, and buttons for All Camera), Camera Function (with fields for Camera Information, Keyboard, Set Hide Camera, Set TDS Camera, Set PT, Set Motion, Set Audio, Set Schedule), Sensor (with fields for Sensor Information, Keyboard, Type, and buttons for Set Schedule), and Relay (with fields for Relay Information, Keyboard, Operation Time, and buttons for Set Schedule). At the bottom are OK, CANCEL, and APPLY buttons.



### System Setup: Device Setup

To setup values of Recording Image (Video)

**Select Device**

When clicking <System Name> and setup camera, which apply to all cameras

Select Camera Setup each Camera

**3<sup>rd</sup> Level Resolution Setup**  
(individual setup for each camera and IP product)

**5<sup>th</sup> Level Image Quality**

**6<sup>th</sup> Level Frame Rate**

The screenshot shows the 'Device' tab with a list of available devices on the left. The 'DVR' icon is highlighted. The 'Camera' section on the right is expanded, showing the 'Use Camera' checkbox checked. The 'Resolution' dropdown is set to '360x288'. The 'Image Quality' dropdown is set to 'Excellent'. The 'Frame Rate' dropdown is set to '1/4'. The 'Camera Function' section shows 'Full' selected. The 'Sensor' and 'Relay' sections are also visible at the bottom.

### System Setup: Device Setup/Motion Recording

To Setup for <Motion Recording>

Setup All Area as Motion Detection Recording

click <Set Motion>

Select Camera

After all setup, have to click <Apply >

Setup <Motion Sensitivity & Rate>

Motion test

Apply setup to all cameras

1. Sensitivity Higher  
Detection Rate is Higher
2. Motion Rate **Lower**  
Detection Rate Higher

<N.B> According to Video server Vendors, they can not support <Sensitivity and Rate> control, and vary the available values.

## System Setup: Device Setup/Motion Recording

### Make Motion Detection Areas(Max 8)

**1** Select Camera

Just <Drag & Drop> the area

**2** Check in <Partial Area>

**3** Click Add

Partial Motion

Motion Sensitivity (%) 90

Motion Rate (%) 3

Add Select Del Del All

Apply Test

To delete setup Areas. Or <Delete All>

### Test Motion Detection

Motion Detected Points

Full Motion Partial Motion

Motion Sensitivity (%)

Motion Rate (%)

Add Select Del Del All

Apply Test

**1** After setting, click <Test>

When Motion is detected "Detected" is shown

Detected

Apply All Close



### System Setup: Device Setup/Motion Recording/Recording Schedule

SETUP

Go to <Setup=> Device> (Refer to Recording Chapter for more details)

1  
Check in  
<Camera> box

2  
Select  
camera

3  
Click <Set Schedule>

Can Schedule Backup  
per week

When clicking Day, it  
applies to all days

3 Kinds of ways to record when sensor  
detected  
(Sensor, Sensor& Motion, Normal & Event)

Apply All

Pre-Alarm Recording  
Max 5 seconds  
(1 pfs)

Post-Alarm Recording  
.Max 240 seconds based on  
setup fps

When clicking <Time>, it  
applies to all that time.

By just <Drag & Drop>  
by certain range , can  
setup Recording

The screenshot displays the 'Device' tab in the 'SETUP' menu. It includes sections for 'Camera' settings (Use Camera, Resolution, Frame Rate, Image Quality), 'Camera Function' (Set PT, Set Motion, Set Audio, Set Schedule), and 'Sensor' information. The 'Set Recording Schedule' window is open, showing a grid for 'Event Recording(Second)' with columns for days (A-S) and rows for hours (0-23). The grid is color-coded: green for 'Sensor', yellow for 'Continuous', and orange for 'Sensor & Event'. A red arrow indicates a drag-and-drop action from the 'Sensor & Event' button to the grid. The 'Pre' and 'Post' recording time settings are visible at the top right of the schedule window.



### System Setup: Device Setup/Holiday Recording Setup

#### <Holiday Recording Schedule Setup>

In Holiday setup, Recording is done by Sunday schedule

The screenshot shows the 'Set Recording Schedule' window with a list of available cameras on the left. The 'Set Holiday' dialog box is open, displaying a calendar for December 2008. A callout points to the 'Set Holiday' button in the main window. Another callout points to the 'Add' button in the dialog box. A third callout points to the 'X-mas' entry in the list below the calendar. A fourth callout points to the date '12-25-2008' in the 'Date' field. A fifth callout points to the 'X-mas' text in the 'Description' field.

Recording Mode	Description	Pre/Post
	No Recording	
	Continuous	
	Motion Recording	Yes
	Sensor Recording	Yes
	Recording in Sensor and Motion Detection	Yes
	Recording in small fps, but Recording Max fps in Events	Yes

### System Setup: Device Setup/Sensor Recording Setup

#### <Sensor Recording Setup>

Setup Sensor Information and Type

Select Sensor Device

Sensor Setup

Write Information

Select Sensor Type  
NO sensor: NC  
NC Sensor: NO

<N.B> NC : Normal Close  
NO : Normal Open

### System Setup: Device Setup/Relay Recording Setup

#### Setup Relay Schedule

Can setup <Relay Schedule> to work in certain time range.)

1

Check in <Relay> box

Select Relay

Event Working.

No Relay Working

Enter Information

Select Event Operation Time(Dwelling Time)

Set Schedule

Apply All

Close

OK

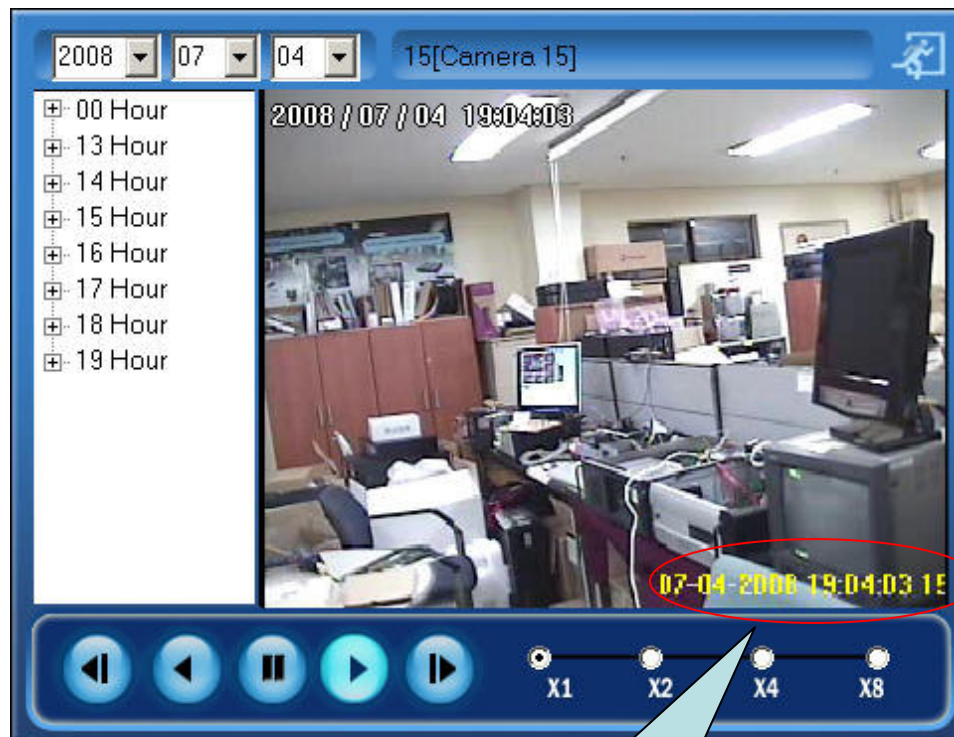
CANCEL

APPLY

### System Setup: Device Setup/TDS Setup

#### <TDS(Time , date stamp) Setup>

To stamp or insert wanted information(Date, Time, Camera Name and others) on recorded video data  
(



Date, Year, Time,  
Camera No

### System Setup: Device Setup/TDS Setup

#### <TDS(Time data stamp) Setup>

**Select Camera**

**Click TDS Set**

**Check in Use box**

**Check in information to set**

**Set place to insert information**

**Set Font, Size, Color**

**Font**

Font: MS Sans Serif  
Font style: Bold  
Size: 11

Effects:  
☐ Strikeout  
☐ Underline  
Color: Yellow

Sample: AaBbYyZz

Script:



### System Setup: Display Setup

SETUP

Go to <Setup => Display=> Default Screen>

Please refer to <Initial Screen Setup>

Setup <Initial Live View Screen Display Division>

To show < Full Screen > in Initial <Live View Screen> , please check in this box

Setup Page change <Dwelling Time>

Setup <TV-out>

Setup <Screen Layout> and allocate Cameras







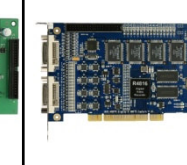
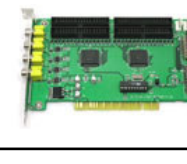
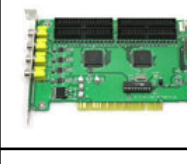
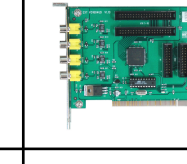







The screenshot shows the 'Display Setup' window with the following details:

- Tabs:** System, Device, Display (selected), Event, User.
- Default Screen:**
  - ☐ Use Full Screen
  - 16 Split
- Display Text:**
  - ☒ Use Display Text
- Page Auto Switch Time:** 1 Second
- TV Out:** Set TV Out button
- Display Layout:**

Channel 1 Occupy	Channel 2 Occupy	Channel 3 Occupy	Channel 4 Occupy	Channel 5 Occupy	Channel 6 Occupy
Channel 7 Occupy	Channel 8 Occupy	Channel 9 Occupy	Channel 10 Occupy	Channel 11 Occupy	Channel 12 Occupy
Channel 13 Occupy	Channel 14 Occupy	Channel 15 Occupy	Channel 16 Occupy	Channel 17 Occupy	Channel 18 Occupy
Channel 19 Occupy	Channel 20 Occupy	Channel 21 Occupy	Channel 22 Occupy	Channel 23 Occupy	Channel 24 Occupy
Channel 25 Occupy	Channel 26 Occupy	Channel 27 Occupy	Channel 28 Occupy	Channel 29 Occupy	Channel 30 Occupy
Channel 31 Occupy	Channel 32 Occupy	Channel 33 Empty	Channel 34 Empty	Channel 35 Empty	Channel 36 Empty

### System Setup: Display Setup/TV-Out

#### TV-Out Function

S/W mode	1ch Switching BD				Multiplex Support BD		
Model	HYC1216	HYC2416	HYC2432	HYC4832	HYR1216	HYR2416	HYR4816
							
TV-out Extension board			Vout3204 	Vout3204 			Vout1604 
Port No	1	1	4(4)	4	1	1	1(4)
Spot Support	Yes	Yes	Yes	Yes	Yes	Yes	Yes by Tv-out BD
							

<N.B> HYR1216, HYR2416 support the same Multiplex Screen same as VGA monitor, and 1CH Spot-out in Event.

### System Setup: Display Setup/TV-Out

#### Setup TV-Out : Without using Vout BD

The screenshot displays two windows from the Securus DVR System Setup software. The 'Set TV Out' window (left) has a 'Display' tab with 'Use Full Screen' and 'Split' options, and a 'Set TV Out' button. The 'Monitor Camera And Event Set' window (right) shows a list of available cameras (1-16) and event settings. Numbered callouts indicate the following steps:

- 1**: Points to the 'Set TV Out' button in the 'Set TV Out' window.
- 2**: Points to the 'Overlay Define Mode' radio button in the 'Set TV Out' window. A yellow callout box says: "Check in <Overlay> mode for HYR1216, HYR2416".
- 3**: Points to the 'User Define Mode' radio button in the 'Set TV Out' window. A yellow callout box says: "Check in <User Define> mode for HYC1216, HYC2416, HYC2432".
- 4**: Points to the 'Set Camera And Event' button in the 'Set TV Out' window. A yellow callout box says: "Set TV-out Port  
1 Port: HYC1216,2416  
4 Port: HYC2416".

Additional yellow callout boxes on the right window provide further configuration details:

- "Switching Time" points to the 'Page Switching Time' dropdown set to 5 seconds.
- "Set <Spot Monitor> in Event" points to the 'Event(Sensor/Motion) Popup' checkbox in the 'Event Set' section.
- "Set <Event Option>" points to the 'Priority between one-split and event' section, specifically the 'One Split has more Priority' radio button.

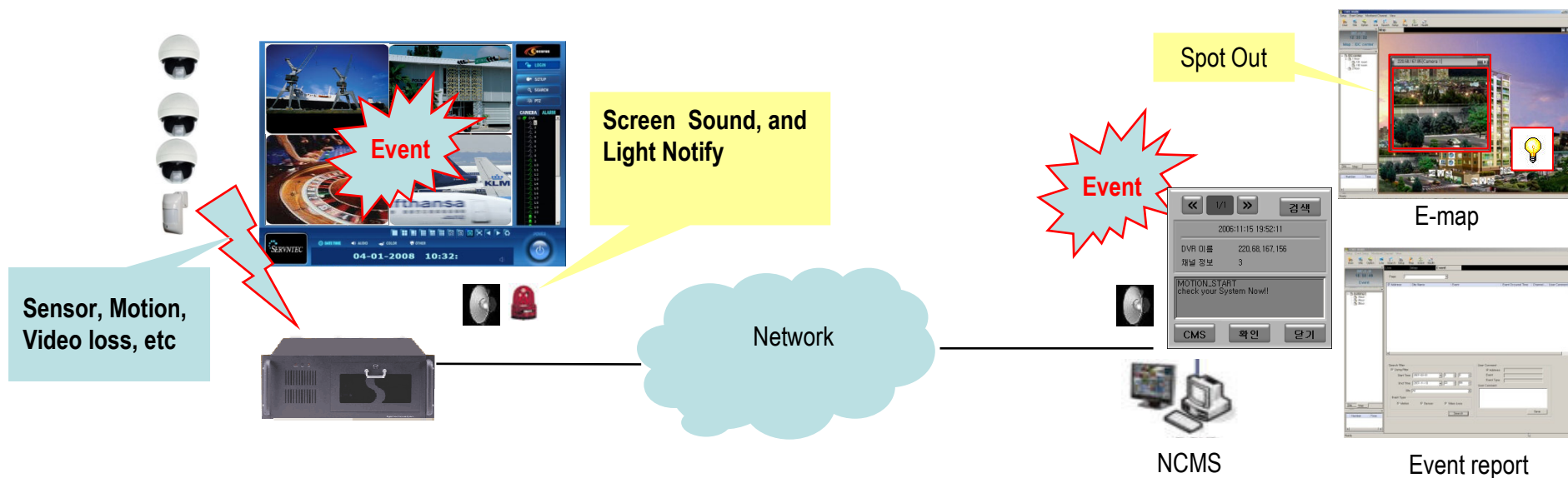
<N.B> When set <1 Spot Split Pop>(Full Screen Pop-up), in TV-out it pop-up full screen in screen change to 1 CH .

-Event Pop-up: In Sensor or Motion detection, it show that camera in TV-out monitor (Spot-Out)

### System Setup: Event Setup



Go to <Setup=>Event (Event(sensor, motion, Video loss)> for <Local Notify, Remote Notify >



#### <Notify Method>

Local Notify: To notify <Events> to local DVR users

Network Notify(Remote): To notify <Events> to Remote users (NCMS)

#### <Notify Mode>

**Local Notify:** Full screen, Red box, beep, OSD color change, Spot monitor

**Network Notify:** E-mail, Video(Event Video View, Video pop up), Sound, Map pop up, etc

### System Setup: Event Setup/Motion

#### Setup Motion Event Notify

Setup <Alarm Out> in Motion Event

Check in Event

Select Camera

Select Relays to control(Multi)

Click <Apply >

Set <Schedule> for Relay Control

Set Relay Schedule

Available Relay

Event Recording(Second)

Pre

Post

InActive

[ Active ]

Set Holiday

Apply All

Close

OK

CANCEL

APPLY

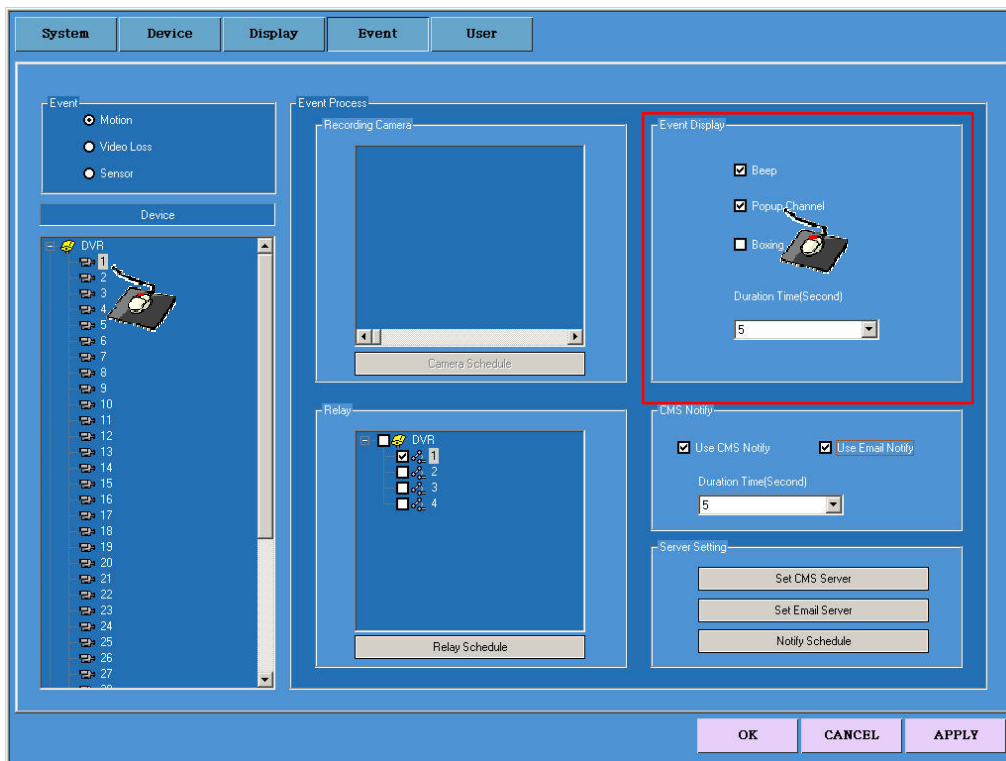
<N.B> This can be setup in <Device> , <Recording> too. <Dwelling> Time can be set in this too



### System Setup: Event Setup/Motion Notify

#### Setup Motion Event Notify

Setup <Alarm Out> in Motion Event



#### Setup Motion Event Notify

Full Screen(Pop-up Output)  
: In Event, Mux screen(same as VGA monitor) changes to 1 CH Screen

※ Setup plural cameras to control

: Please setup several cameras to check and control in hand.

-Beep :Give <Beep> sound in.

Border: Give Red Border Line to Video

Duration Time: Set <Dwelling Time > for Event

※ N.B: When <Duration Time> is not set, users have to double click to go to original Screen.

### System Setup: Event Setup/Sensor Notify

#### Setup Sensor Notify

Setup <Alarm Out>(Camera & Relay) in Sensor Event

**Check in Sensor**

**Select Sensor**

**Select Cameras to control**

**Set <Recording> here too**

**Set Notify Method (Same as Motion)**

**Select Relays to control**

**Set Recording Schedule**

Available Camera	Event Recording(Second)																								
	Pre 4 Post 5																								
	A	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
DVR	S																								
1C Door	S																								
2C Window	M																								
3C Garden	T																								
4	W																								
5	T																								
6	F																								
7	S																								
8																									
9																									
10																									
11																									
12																									
13																									
14																									
15																									
16																									
17																									

**No Recording** **Continuous** **Sensor**

**[ Motion ]** **Motion or Sensor** **Normal & Event**

Set Holiday Apply Apply All Close

### System Setup: Event Setup/Remote Notify

#### Setup Remote Notify

Notify to Remote Client (NCMS) in Events

The screenshot shows the 'Event Setup/Remote Notify' configuration window. The 'Event' tab is selected, showing options for Motion, Video Loss, and Sensor. The 'Event Process' section includes 'Recording Camera', 'Event Display', and 'Relay'. The 'Event Display' section has checkboxes for Beep, Popup Channel, and Boxing, along with a 'Duration Time(Second)' dropdown. The 'Relay' section has a 'DVR' list with checkboxes for each channel. The 'Server Setting' section includes buttons for 'Set CMS Server', 'Set Email Server', and 'Notify Schedule'. Callouts provide instructions: 'Check in Use box to notify events to CMS' points to the 'Use CMS Notify' checkbox; 'Check in Use box to notify events to Email' points to the 'Use Email Notify' checkbox; 'Set Interval of Notifying' points to the 'Duration Time(Second)' dropdown; and 'Set CMS server IP Schedule for Email Notification' points to the 'Set Email Server' button. A yellow note at the bottom right states: '<N.B> Can not set each CMS server and schedule for each event.'

### System Setup: Event Setup/Remote Notify

#### Setup Remote Notify

#### <CMS Setup >

**Event Setup**

- Event:** Motion, Video Loss, Sensor
- Device:** DVR (List of 28 devices)
- Event Process:** Recording Camera, Camera Schedule
- Event Display:**
  - ☒ Popup Channel
  - ☐ Boxing
  - Duration Time(Second): 5
- Relay:** Relay Schedule
- CMS Notify:**
  - ☒ Use CMS Notify
  - ☒ Use Email Notify
  - Duration Time: 5
  - Buttons: Set CMS Server, Set Email Server, Notify Schedule

**<CMS Setup >**

- CMS List:** Max 8 sites(DVRs)
- CMS IP Address:** 220 . 68 . 167 . 8 (Enter IP Address for CMS)
- CMS Port Number:** 8800 (Enter Agent server port)
- Keyboard:** [Button]
- Buttons:** Add, Modify, Remove, Close

**Set Notify Schedule**

Set Notify Schedule

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
A																		
S																		
M																		
T																		
W																		
T																		
F																		
S																		

**Buttons:** InActive, [ Active ], Apply, Close

**Callouts:**

- 1: Check in <Use CMS notify>
- 2: Set <Duration Time> to Notify
- 3: Set Site(DVR) to connect
- Enter IP Address for CMS
- Enter Agent server port
- Set Notify Schedule

**<N.B> CMS setup can be set for one time for all Events Notify**



## System Setup: Event Setup/Remote Notify

## Setup Remote Notify

## <Email Setup >

The screenshot shows the 'Event' tab of the CMS Setup software. The interface includes a left sidebar with a camera list, a central 'Event Process' area, and a right sidebar with configuration options. Numbered callouts provide the following instructions:

- 1**: Select camera for Event (points to the camera list in the sidebar).
- 2**: Check in < Use Email notify) (points to the 'Use Email Notify' checkbox in the 'CMS Notify' section).
- 3**: Set <Duration Time> to Notify (points to the 'Duration Time(Second)' dropdown menu).
- 4**: Set Email information (points to the 'Set Mail Server' dialog box).
- 5**: Set Email Server Log-in information when needed (Like Yahoo) (points to the 'Use Mail Server Login' checkbox).
- 6**: Check in to attach image with Event (points to the 'Use File Attach' checkbox).
- 7**: Test Notification Test (points to the 'Mail Test' button).
- 8**: Set Notify Schedule (Same schedule for Email and CMS) (points to the 'Set Notify Schedule' dialog box).

The 'Set Mail Server' dialog box contains the following fields:

- Mail Server (SMTP Server): mail.servntec.com
- From: nklee@servntec.com
- To: nklee@servntec.com
- Cc: (empty)
- Use Mail Server Login: ☐
- User: (empty)
- Password: (empty)
- Use File Attach: ☒ (VKKey button)
- Use Mail Test: ☐
- Mail Test: (empty)
- Subject: (empty)
- Content: (empty)

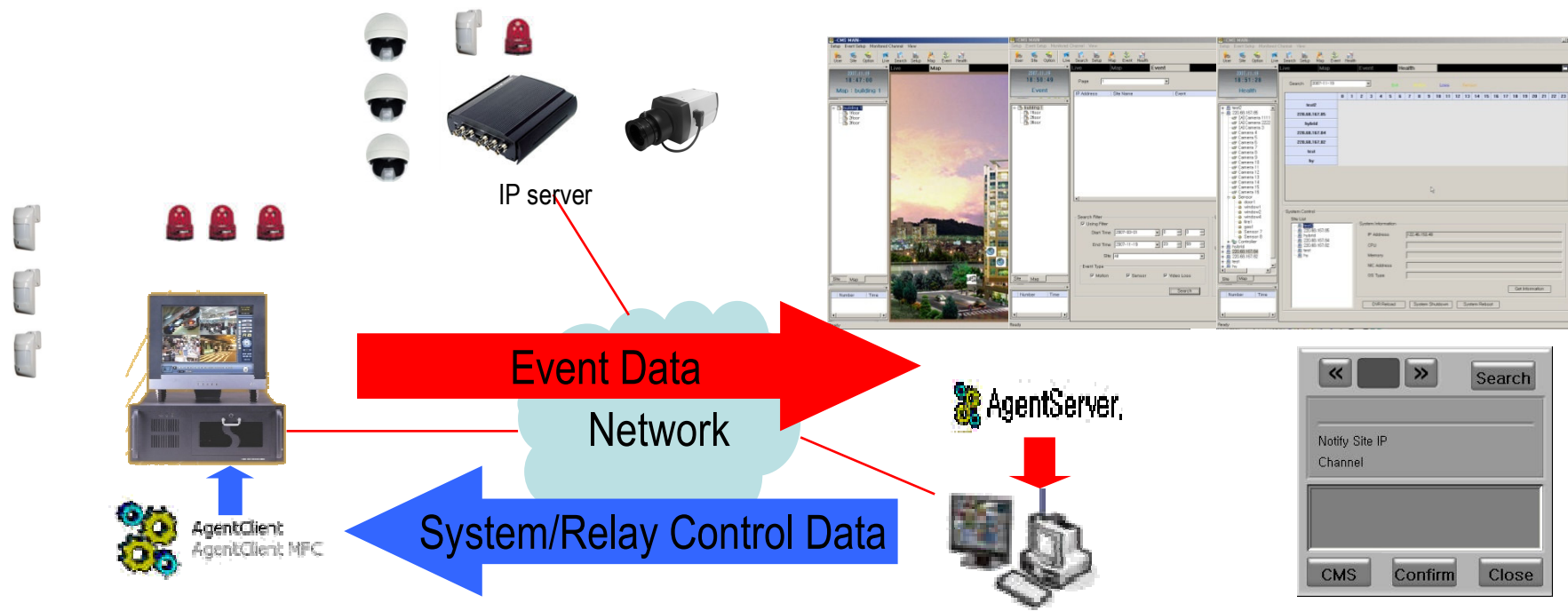
The 'Set Notify Schedule' dialog box shows a calendar grid with days of the week (A, S, M, T, W, T, F, S) and hours (0-9). The 'InActive' button is highlighted.

At the bottom of the main window, there are 'OK', 'CANCEL', and 'APPL' buttons.

<N.B> CMS setup can be set for one time for all Events Notify



### System Setup: Event Setup/Remote Notify Configuration



Through Agent Client (DVR) and Agent Server (NCMS) all Events data are exchanged..

All System/Relay control Data are exchanged through Agent Client (DVR) and Agent Server (NCMS)

### System Setup: Event Setup/CMS Setup

#### Sequence

1. Setup <Network Notify> like previous pages)
2. Setup <Event Alarm Level> in NCMS
3. Setup <Event Alarm Level> in each event.



### System Setup: Event Setup/CMS Setup



Event Level Setup: Setup each event according to individual Event Scenario

**Event Alarm Level Setup**

Very High	High	Normal	Low
Map Popup	Map Popup	Map Popup	Map Popup
Live Popup	Live Popup	Live Popup	Live Popup
Alarm Play	Alarm Play	Alarm Play	Alarm Play
Email Notification	Email Notification	Email Notification	Email Notification

☒ Default Alarm Sound File Use  
D:\New Work\CMS\system\image\notify.wav ...

Event Dwelling Time: 10 Second

**E-Mail Setup**

Level: **Very High** (dropdown menu)  
All (button)

SMTP Server: mail.servntec.com  
Subject: sensor 1  
From: nklee  
To: nklee@servntec.com  
Content: fire....

OK Cancel

Can setup Scenario based on each Level

Set <Sound> for alarm (Default: Beep)

For <Map Pop-up> and <Event Pop-up>, can setup <Duration Time> '10 ~ 60 Second

Write Email information

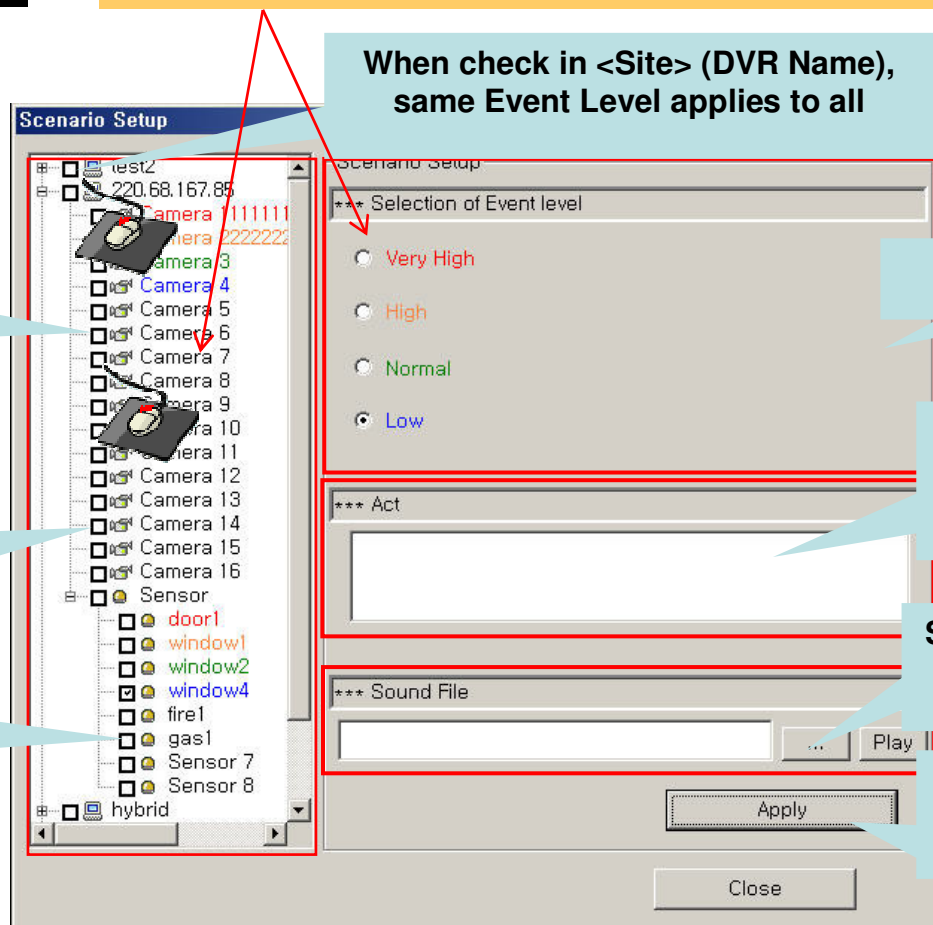
For this <Email Notification> has to be set.

### System Setup: Event Setup/CMS Setup



Event Level Setup: Setup each event according to individual Event Scenario

In each camera and Sensors , users can see <Event Level> by color



Set each camera's Event and Event

Set Motion Event

Set Sensor Event

When check in <Site> (DVR Name), same Event Level applies to all

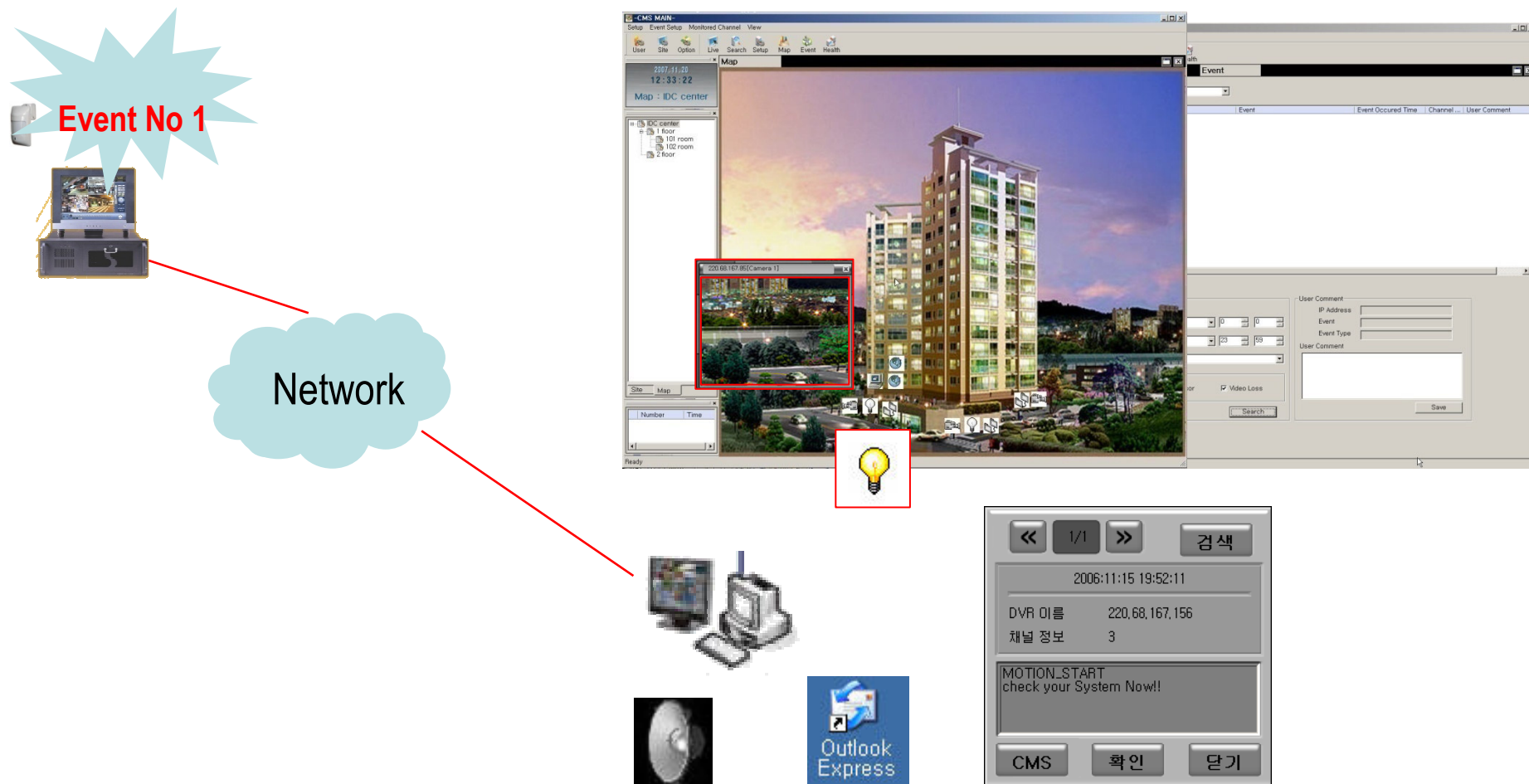
Set Event Level

Write some description and action in those Event

Set Sound in Event

Have to click <Apply> button

### System Setup: Event Setup/CMS Working Configuration





### System Setup: User Setup

## User Management Setup

To manage and control each user according to User Level and Right

<N.B> When set certain users to use <Setup>, which will apply to DVR and Remote Client too.

The screenshot shows the 'User' tab in the 'System Setup' window. It features a 'DVR User' list on the left, a 'User Information' form, a 'User Type' section, and a 'Function Rights' grid. Callouts provide instructions for each part of the interface.

**Callouts:**

- Show registered User:** Points to the 'DVR User' list on the left.
- Enter User information to add and register after entering all information:** Points to the 'User Information' form fields.
- Set User Level:** Points to the 'User Type' section with radio buttons for 'Administrator' and 'User'.
- Set <Accessible Functions> for user:** Points to the 'Function Rights' grid.
- Add/Modify/Remove User:** Points to the 'Add User', 'Modify User', and 'Remove user' buttons at the bottom.

**Form Fields and Controls:**

- System Setup Tabs:** System, Device, Display, Event, **User**
- DVR User List:** admin, jake, user2, 1, 2, guest, **uer3**
- User Information:**
  - User Id: uer3
  - User password: [password field]
  - User Confirm Password: [password field]
  - User Name: 1
  - Comment: 1
  - Keyboard: [button]
- User Type:**
  - ☒ Administrator
  - ☐ User
- Function Rights:**
  - ☐ DB Setup
  - ☐ Setup
  - ☐ Playback
  - ☐ PTZ
  - ☐ Live Audio
  - ☐ Remote Connect
  - ☐ Close
  - ☐ Backup
  - ☐ Color Adjust
- Buttons:** Add User, Modify User, Remove user, OK, CANCEL, APPLY

### System Setup: User Setup

#### To add User

**System Setup: User Setup**

**To add User**

**1** Click <Add User>

Enter User information to add and register after entering all information.

Set User Level  
Administrator::Rights for all functions  
User: Rights for each setup function

Set <Accessible Functions> for user

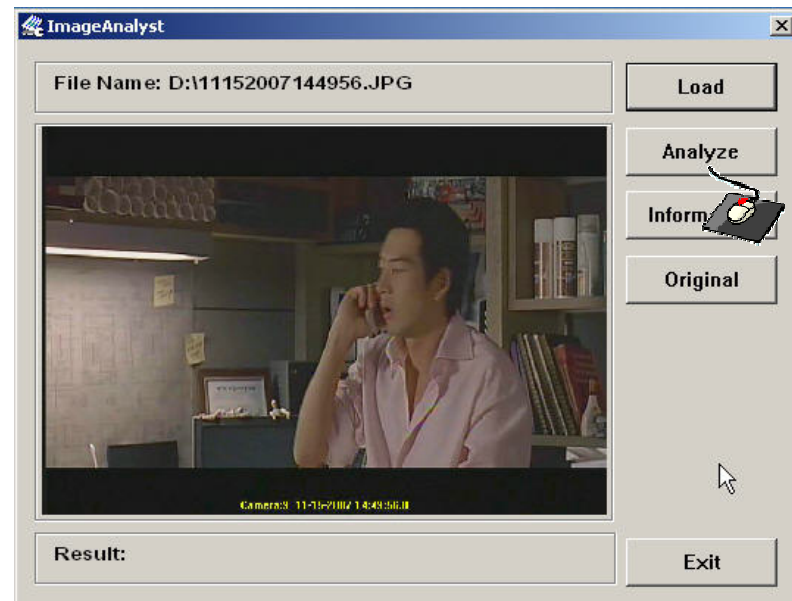
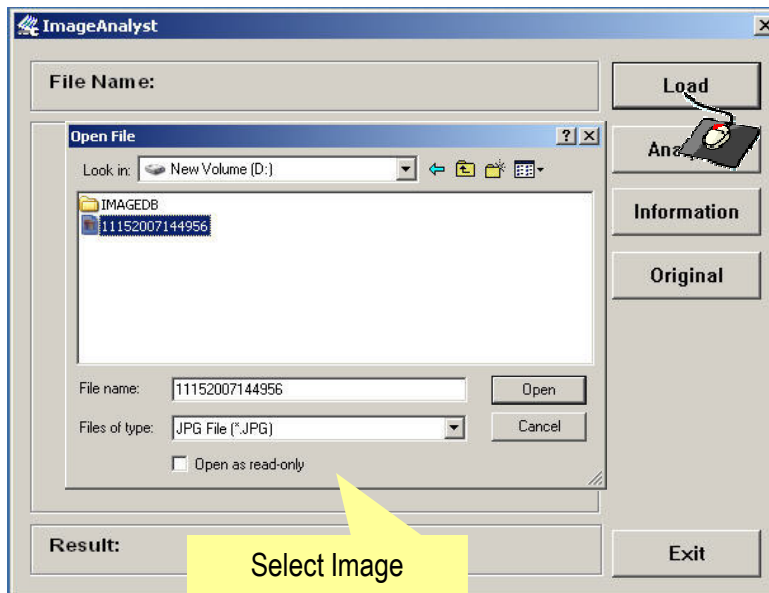
Add/Modify/Remove User

### 1. Image Analyst

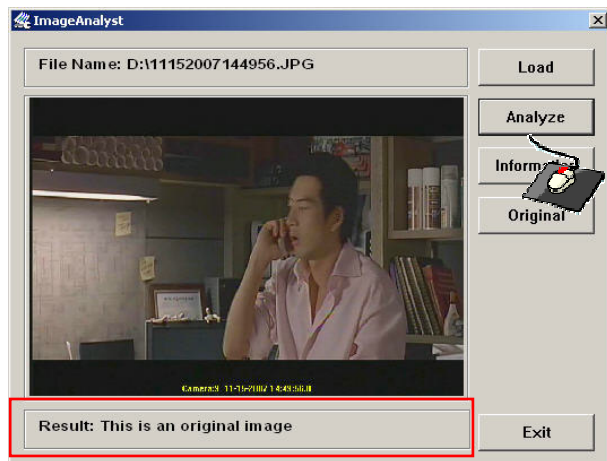
To check the forgery of saved JPEG Image



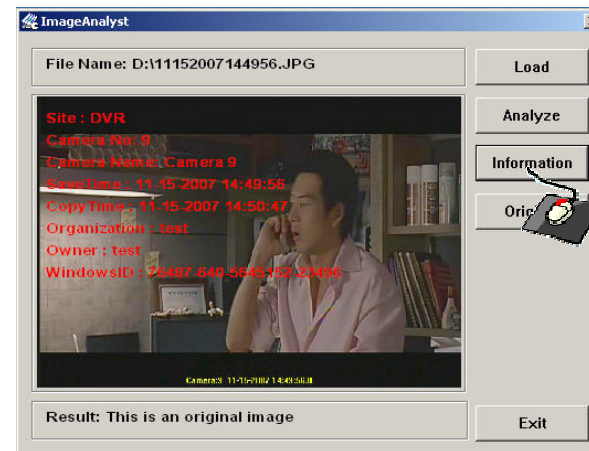
To Run C:\program files\DVR\ImageAnalyst



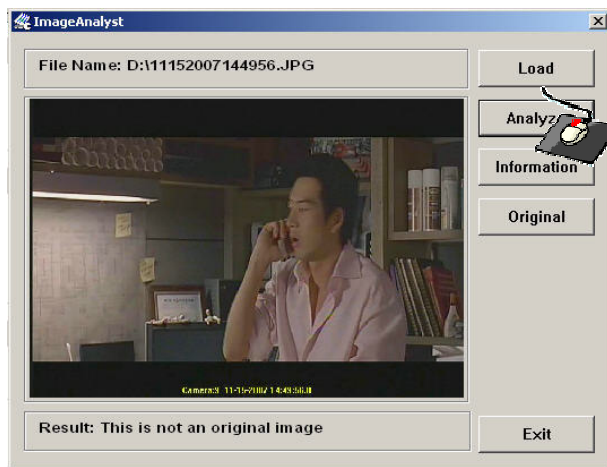
### 1. Image Analyst



When <Result : This is an original image> is shown, this is real image



When clicking <Information>, Site Name, Camera No/Name, Recording Time, Copy time, and Computer information are shown.



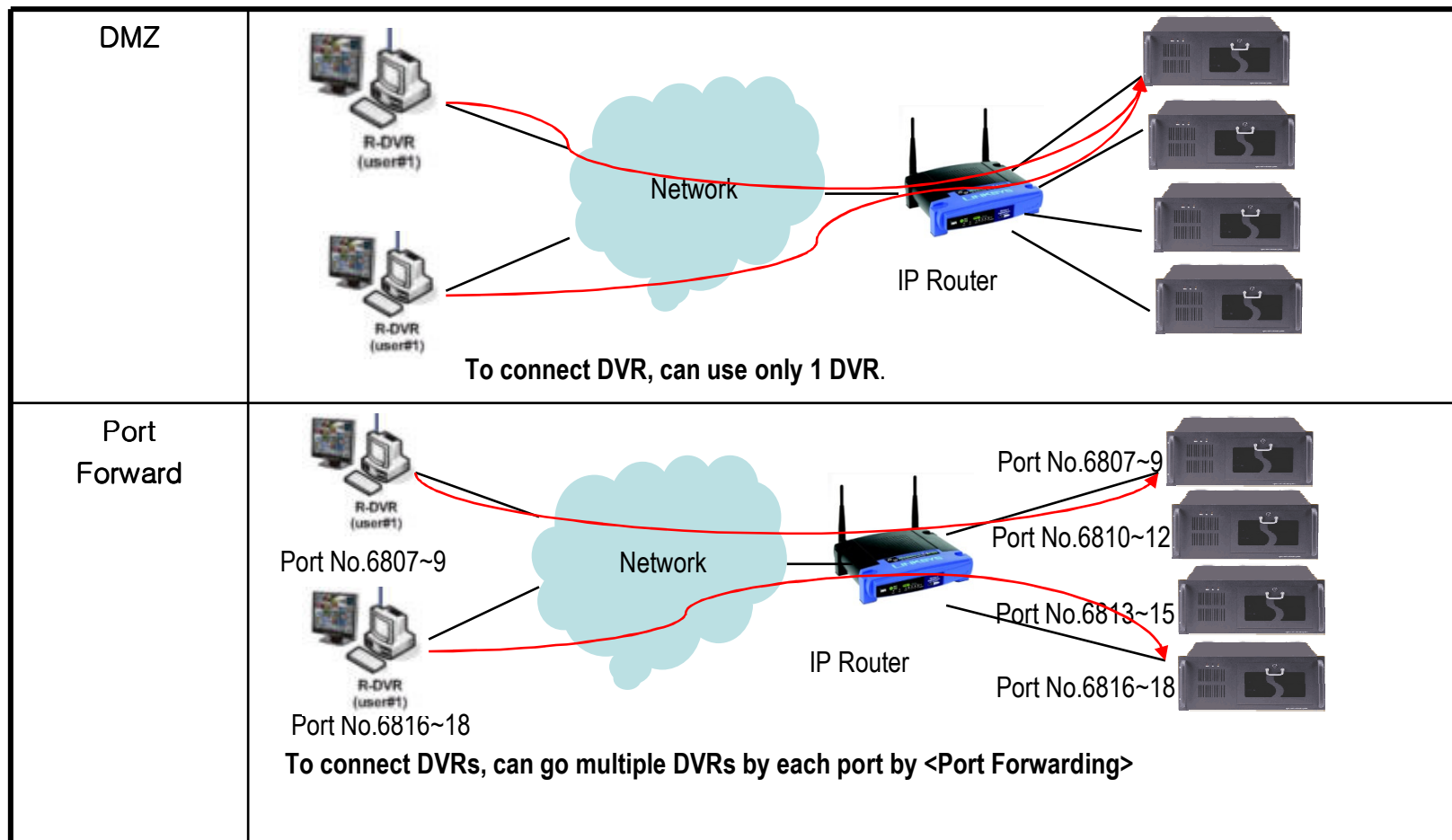
**This is not an original image : This means that image is not real image and forged.**

<N.B >When clicking this, any information is not shown.

### 2. How to setup and use Router

To use <Router> for IP distribution, users have to setup <IP Router> for DMZ, Port forwarding.

Each setup ....please follow the manual of IP Router





### 2. How to setup and use Router

#### Setup Linksys Router

Log in Linksys Router : Please study Linksys Manual for log-in



Log-In to Router.

Enter default ID in IE as router manual.

Ex: (192.168.1.1)(Please refer to Router Manual to find this)

Enter <User Name> and <Password> in Log-In Window below  
(Default: , Password: admin)

## 2. How to setup and use Router

To <Port-Forward>

<Applications & gaming>=> <Port Range Forward>

**LINKSYS**  
A Division of Cisco Systems, Inc. Firmware Version: v2.04.3

Wireless-G Broadband Router WRT54G

Applications & Gaming

Port Range Forward

Application	Start	End	Protocol	IP Address	Enable
	0	to 0	Both	192.168.1.0	<input type="checkbox"/>
	0	to 0	Both	192.168.1.0	<input type="checkbox"/>
	0	to 0	Both	192.168.1.0	<input type="checkbox"/>
	0	to 0	Both	192.168.1.0	<input type="checkbox"/>
	0	to 0	Both	192.168.1.0	<input type="checkbox"/>
	0	to 0	Both	192.168.1.0	<input type="checkbox"/>
	0	to 0	Both	192.168.1.0	<input type="checkbox"/>
	0	to 0	Both	192.168.1.0	<input type="checkbox"/>
	0	to 0	Both	192.168.1.0	<input type="checkbox"/>
	0	to 0	Both	192.168.1.0	<input type="checkbox"/>

**Port Range Forwarding:**  
Certain applications may require to open specific ports in order for it to function correctly. Examples of these applications include servers and certain online games. When a request for a certain port comes in from the Internet, the router will route the data to the computer you specify. Due to security concerns, you may want to limit port forwarding to only those ports you are using, and uncheck the **Enable** checkbox after you are finished. [More...](#)

Save Settings Cancel Changes

**LINKSYS**  
A Division of Cisco Systems, Inc. Firmware Version: v4.20.8

Wireless-G Broadband Router SerWTeC

Applications & Gaming

Port Range Forward

Application	Start	End	Protocol	IP Address	Enable
	80	to 81	Both	192.168.1.200	<input type="checkbox"/>
dvr	6807	to 6809	Both	192.168.1.100	<input checked="" type="checkbox"/>
dvr1	6810	to 6812	Both	192.168.1.101	<input checked="" type="checkbox"/>
	0	to 0	Both	192.168.1.0	<input type="checkbox"/>
	0	to 0	Both	192.168.1.0	<input type="checkbox"/>
	0	to 0	Both	192.168.1.0	<input type="checkbox"/>
	0	to 0	Both	192.168.1.0	<input type="checkbox"/>
	0	to 0	Both	192.168.1.0	<input type="checkbox"/>
	0	to 0	Both	192.168.1.0	<input type="checkbox"/>
	0	to 0	Both	192.168.1.0	<input type="checkbox"/>

**Port Range Forwarding:**  
Certain applications may require to open specific ports in order for it to function correctly. Examples of these applications include servers and certain online games. When a request for a certain port comes in from the Internet, the router will route the data to the computer you specify. Due to security concerns, you may want to limit port forwarding to only those ports you are using, and uncheck the **Enable** checkbox after you are finished. [More...](#)

Save Settings Cancel Changes

Application : Application Name  
 Start ~ End: Enter port range (DVR default: 6807~6809)  
 IP Address: Enter Fixed IP address  
 Enable: Check in <Enable>  
 <Save Settings> and Exit.

## 2. How to setup and use Router

### To Setup DMZ

<Application& Gaming>=> <DMZ>

Check in <Enable>

DMS Host IP Address: Enter Fixed IP

<Save Settings> and exit

<N.B> Can not use <Port forward> and <DMZ> together

### <N.B> DHCP Setup

Like the Pic above, users have to setup <disable> DHCP, and other IP as Fixed IP. Or when using <able> DHCP, users have to use different IP from <DHCP> range IP.

### 3. Recover <ImageDB>

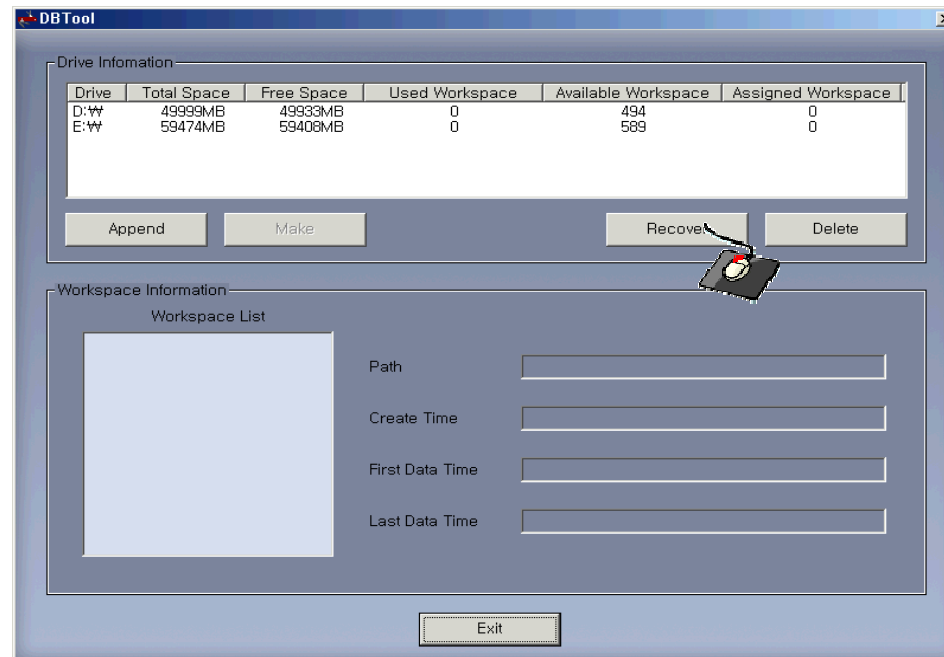
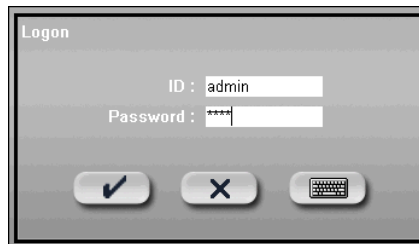
#### To recover <ImageDB>

When <ImageDB> is corrupted or <Playback> is not working, run <Image DB Recovery>.

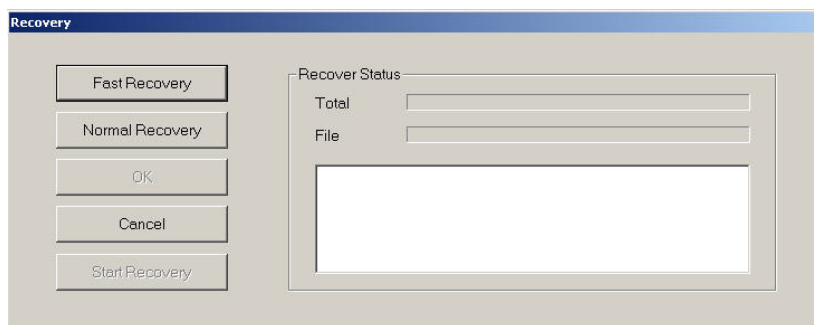
<N.B> When HDD is broken, can not recover it.



C:\program files\dvr\NEDBTool.exe를 실행



### 3. Recover <ImageDB>

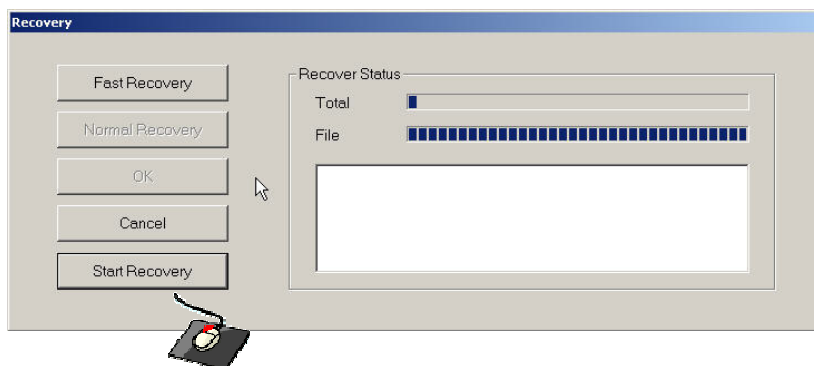


#### Fast Recovery

Based WSxxxxxx.idx (Index File), it recovers < Timeinfo> folder and <IMAGEDB file> in C:\IMAGEDB folder

#### Normal Recovery

: Based WSxxxxxx.dat (Dat File), it newly recovers < Timeinfo> folder and <IMAGEDB file> in C:\IMAGEDB folder. It takes more time. )



#### <Start Recovery>

After this <OK> message will be shown..

<N.B> In <Recovery> , do not do other jobs.

#### <N.B> In C:\IMAGEDB

It has all needed information like <saved date, Time Info, Driver Name and others>, which make <playback> faster

**IMAGEDB:** WSxxxxxx.dat, WSxxxxxx.idx

**WSxxxxxx.dat :** Real Video data

**WSxxxxxx.idx :** Index file for data location and others



## 4. Direct Backup

### How to Direct backup

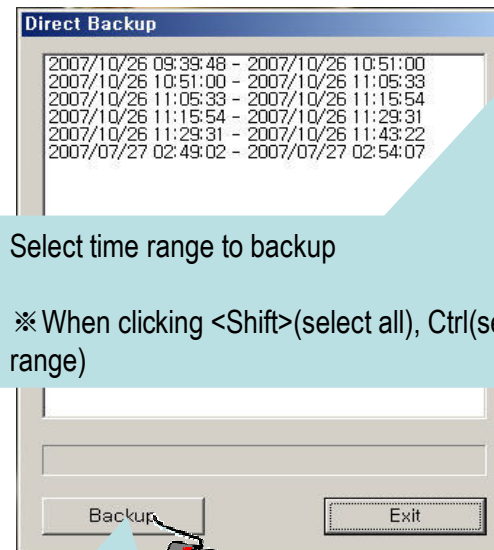
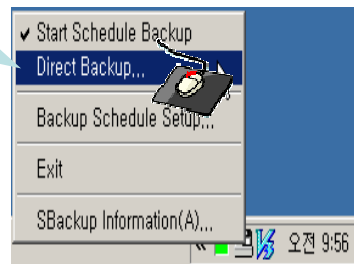
When there is an error in Backup or to backup the data in certain range of time, fast, please use this.

<N.B> For this, please stop <DVR> first

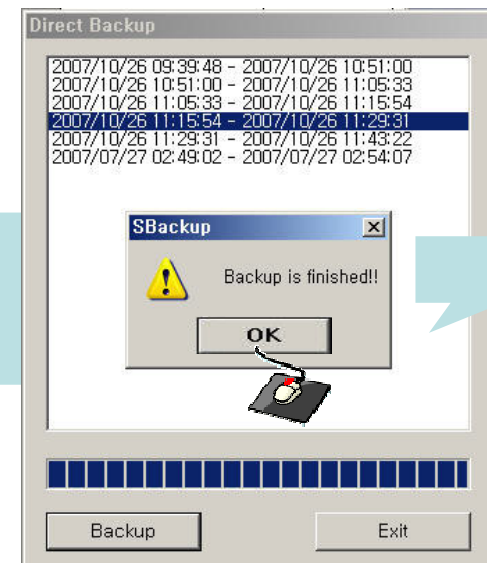


In Tray bar, click the right button of <Schedule backup icon>.

Select  
Direct backup



Select folder to save



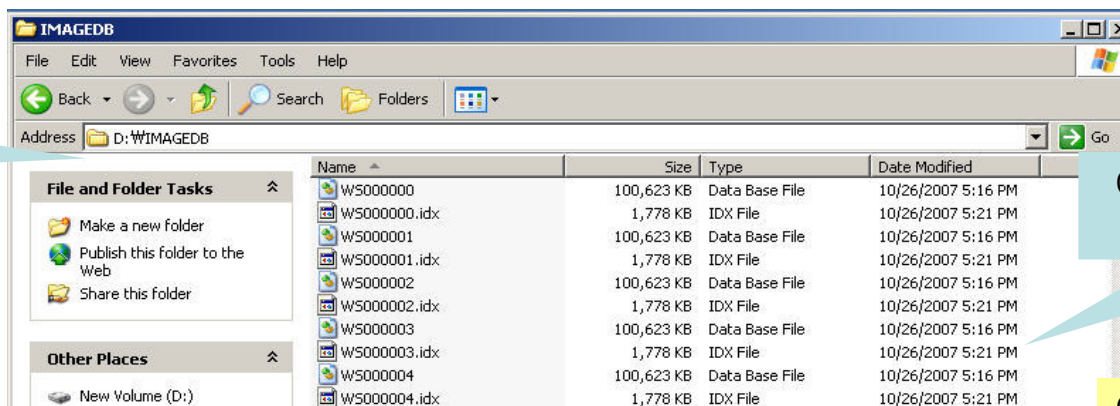
### 5. Copy Data files

#### Copy Data files and backup

Administrator can access and copy each <ImagDB> in each folder, and copy them to wanted places.

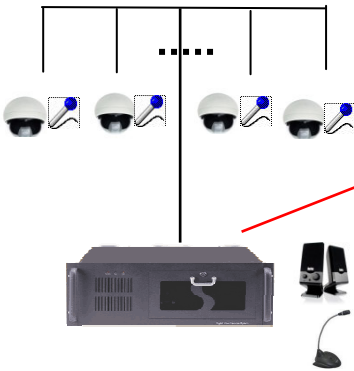

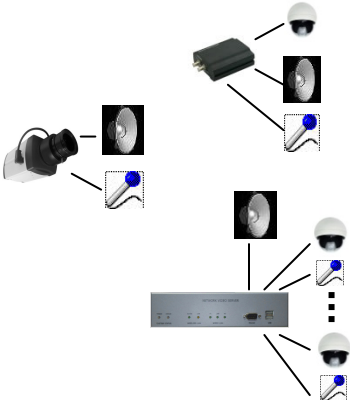
Please use this for only urgent cases or

- When HDD has some problem
- When System has some problems, and have to backup to HDD
- When Administrator needs this.



### 6. How to use 2-Way Audio with IP products

#### 2-Way Audio configuration

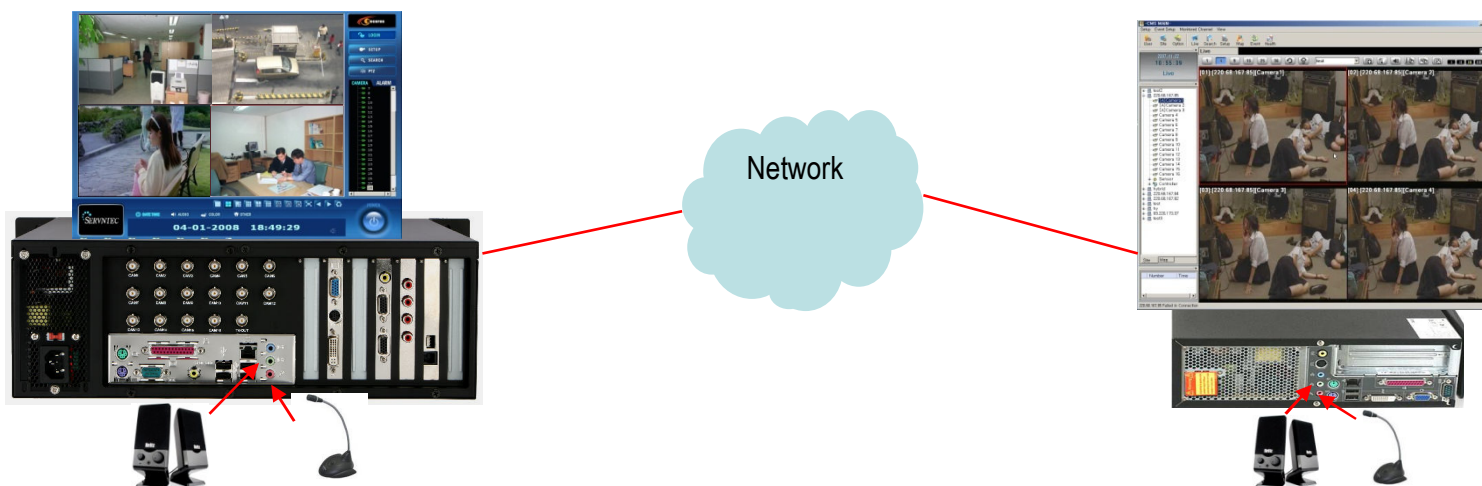
DVR system	NCMS	IP product
		
<p>Connecting DVR system with IP Product, users can use 2-Way Audio</p> <p>For Video server, IP camera, users have to setup 2-way.</p>	<p>NCMS can do 2-Way Audio with DVR and IP each IP products too.</p>	<p>Can not do &lt;2-way Audio&gt; directly with IP products, only with NCMS.</p>
<p>&lt;N.B&gt; NCMS do &lt;2-way Audio&gt; by direct connection with IP products</p>		

## 7. How to use 2-way Audio(DVR-NCMS)

How to connect and use 2-Way Audio for DVR and NCMS

For 2-Way Audio communication, CMS and DVR system use each system's sound card.

<Hardware Connection>



Connect and speaker and Microphone in DVR system's sound card

Connect and speaker and Microphone in NCMS system's sound card

### 7. How to use 2-way Audio(DVR Setup)

SETUP

Go to <Setup=> System> (Two way Audio Server Port Setup)

The screenshot shows the 'Set Advanced Network' dialog box in the Securus DVR Setup interface. The dialog box has a 'Live Connect' section with a checkbox for 'Use Network Connect' and a 'Set Bandwidth' dropdown menu. Below this, there are input fields for 'Live Port' (6807), 'Playback Port' (6808), 'Web Port' (6880), 'ZWayAudio Port' (6809), and 'Agent Port' (8801). The 'ZWayAudio Port' field is highlighted with a red box, and a callout bubble points to it with the text 'Default port: 6809'. At the bottom of the dialog box are buttons for 'Virtual Keyboard', 'Save', and 'Close'. The background shows the main setup interface with tabs for 'System', 'Device', 'Display', 'Event', and 'User'. The 'System' tab is active, showing options for 'Set System Information', 'Set Advanced System', and 'Set Advanced Network'. The 'Dynamic IP' section is also visible with a 'Use' checkbox and various input fields for Member ID, Member Password, DVR Desc, DVR User ID, DVR User Password, and Email.



When DVR system runs, in tray bar, <RDVR Two-way server> runs automatically.

### 7. How to use 2-way Audio(NCMS Setup)



Go to NCMS <Site Setup> and setup 2-way server port

**Site Setup**

Name	Type	Addr Type	IP Address	Video Port
test2	PC DVR	Fixed IP	122.46.153.48	6807
220.68.167.85	SDH DVR	Fixed IP	220.68.167.85	6807
hybrid	NetEye	Fixed IP	220.68.167.83	6807
220.68.167.84	PC DVR	Fixed IP	220.68.167.84	6807
220.68.167.82	NetEye	Fixed IP	220.68.167.82	6807
test	PC DVR	Fixed IP	220.68.167.84	6807
hy	NetEye	Fixed IP	220.68.167.83	6807

Buttons: Register New Site, Modify, Delete, Port Setup

**Port Setup**

Site Name	Two-Way Audi...	Agent Port
test2	6809	8801
220.68.167.85	6809	8801
hybrid	6809	8801
220.68.167.84	6809	8801
220.68.167.82	6809	8801

Port Setup fields:

Two-Way Audio Port: 6809

Agent Port: 8801

Buttons: Save, Close

Enter Port No the same as DVR

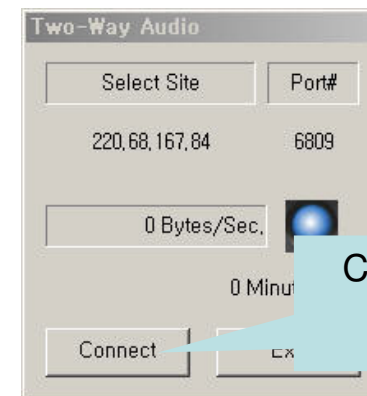
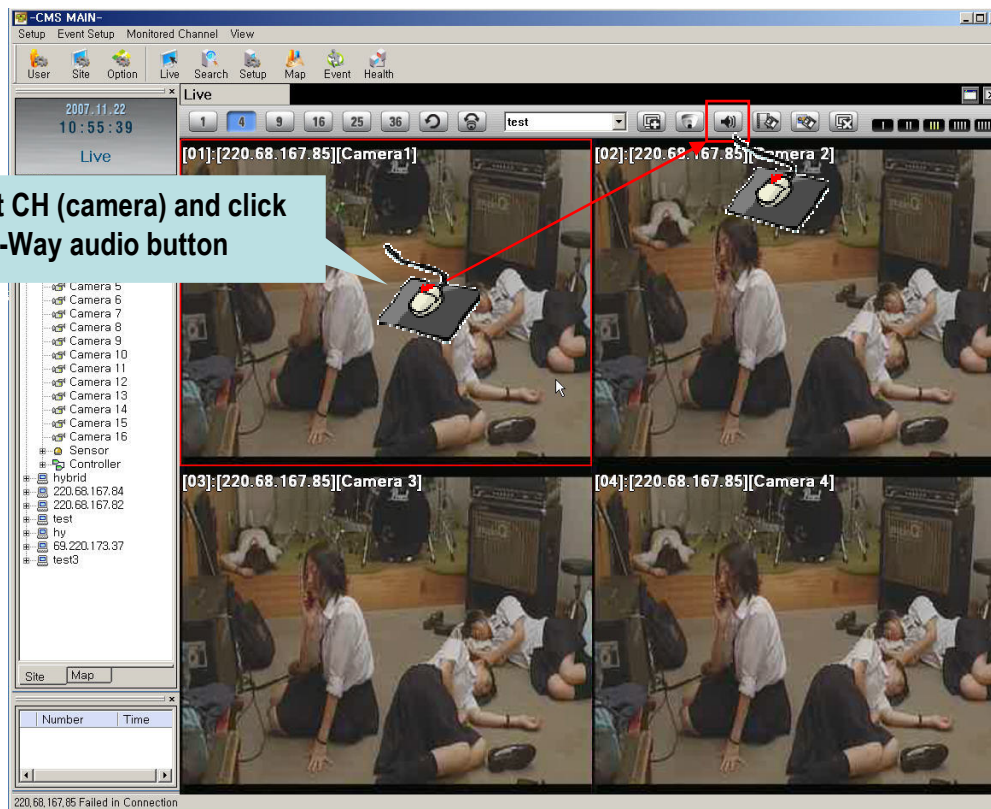


### 7. How to use 2-way Audio(NCMS Setup)

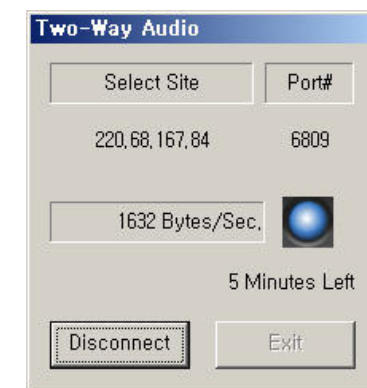


#### 2-Way Audio(With DVR)

Select CH (camera) and click 2-Way audio button



Click <Connect> button



### 7. How to use 2-way Audio(IP product Setup)

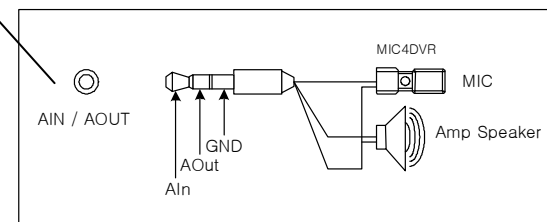
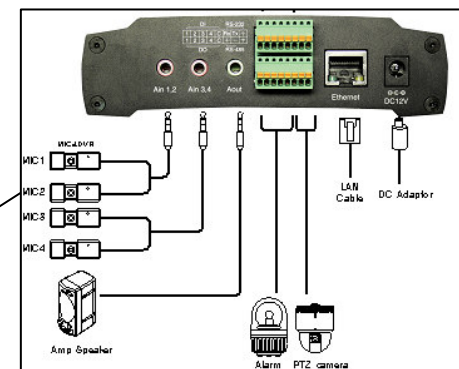
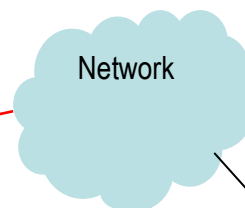
#### 2-Way Audio for DVR and IP Products

Setup IP Products 2-way Audio connected with DVR

<Hardware Connection>



Connect and speaker and Microphone in DVR system's sound card



IP product

### 7. How to use 2-way Audio(IP product Setup)

#### 2-Way Audio for DVR and IP Products

Setup=> device => set Audio 들어가 Audio를 설정



## 7. How to use 2-way Audio(IP product Setup)

### 2-Way Audio for DVR and IP Products

In IP product, users have to select IP products first and hear Live Audio and select <Talking with> for 2-way audio

To use Speaker in IP product (2-way Audio)

Hear Live Audio in IP products

The image displays two screenshots of the Securus DVR web interface, illustrating the steps to enable 2-way audio for IP products.

**Left Screenshot (IP Product Setup):**

- The interface shows a grid of camera feeds and a sidebar with buttons: LOGIN, SETUP, SEARCH, and PTZ.
- A callout box with a mouse icon points to the 'Talking with ...' button in the 'CAMERA' list, with the text: "Click the right button of mouse and select <Talking with> to use 2-way audio. This goes to speaker of IP products".

**Right Screenshot (Hear Live Audio):**

- The interface shows the same grid of camera feeds and sidebar.
- A callout box with a mouse icon points to the 'Audio' button in the bottom toolbar, with the text: "Click Audio Button".
- Another callout box with a mouse icon points to the 'Play' button in the bottom toolbar, with the text: "Click play button to hear Live Audio".
- A third callout box with a mouse icon points to the 'Select IP Product to use' dialog box, with the text: "Select IP Product to use".



### 8. Go out to Window Mode to setup and manage <Window>

To protect DVR security, users can not go to Window from DVR.

To go out to Window to manage and setup Window properties, users have to do this below



In <Login> status in DVR, click the screen in <live View> window

And enter **<TAB key => admintoolexit => TAB key>**  
or **< Alt+F2>**

By this, administrator can go out to Window Mode..

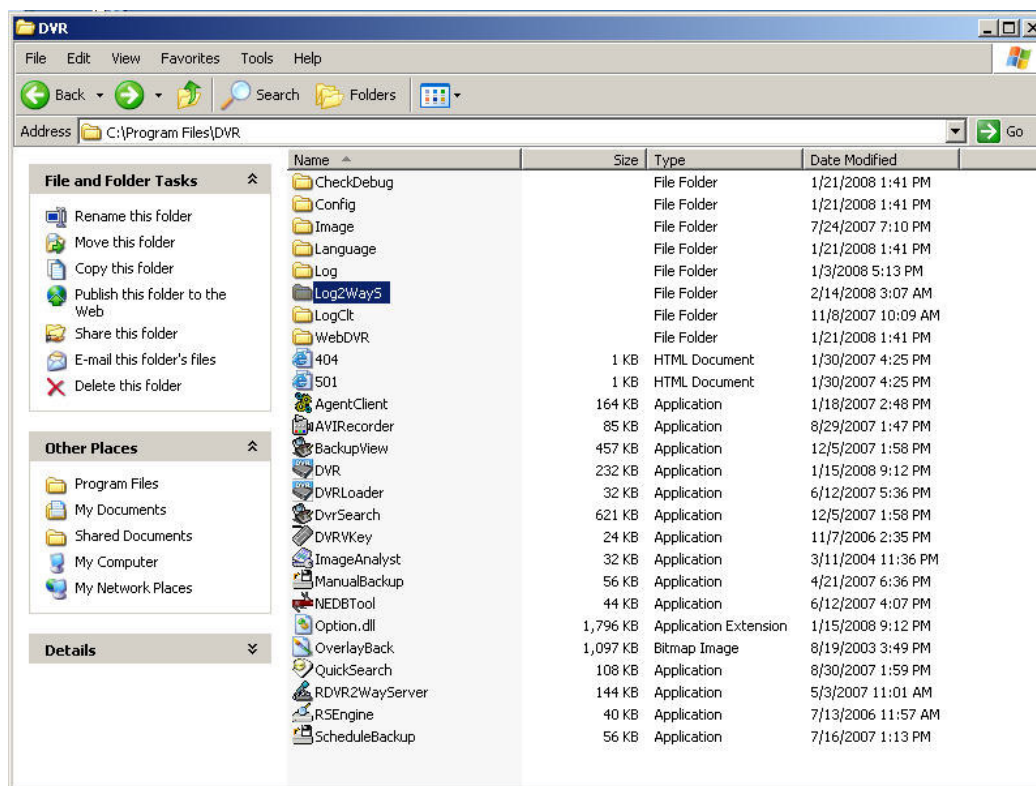
<N.B>

Can not use Window Function keys except above.

### 9. DVR SW and Folder description

All DVR SW are installed In C:\program files\DVR.

<N.B> All system file are installed in System Directory



### Folder Description

**Log:** system log, event log, network log

**Log2wayS:** 2way Audio Log

**Config:** DVR Configuration files






**Image:** DVR image

**Language:** Language file(Menu) in DVR








### 10. Exe File Description

#### EXE File Description

EXE file	Description
 DVRLoader DVRLoader MFC	To load and run <ImageDB check and Recovery,DVR,exe, SEngine.exe, Schedulebackup.exe> <N.B>This has to run only in starting DVR, when runs again, that can make a problem..
 DVR DVR	Run DVR program(main, setting)
 DvrSearch DvrSearch	Search Data
 NEDBTool NEDBTool MFC	Make ImageDB
 ImageAnalyst ImageAnalyst MFC	Check <Watermark>





### 10. Exe File Description

#### EXE File Description

EXE file	Description
 AVIRecorder	Make AVI file
 ScheduleBackup SBackup MFC □□	Run by DVR Loader, and run <Schedule backup, Direct backup> SW. (Icon is running in Task bar)
 ManualBackup MBackup MFC	To Manual backup.
 BackupView DvrSearch	To search Backup data in Backup SW
 QuickSearch QuickSearch	To search Event and can see <System log, event log>

### 10. Exe File Description

#### EXE File Description

EXE file	Description
 DVRVKey DVRVKey MFC	Virtual key program
 AgentClient AgentClient MFC	To give Event Data to client program (Shown Icon in Tray Bar)
 RDVR2WayServer RDVR2WayServer MFC	SW to support 2-Way Audio (Shown Icon in Tray Bar)
 RSEngine RSEngine MFC I	To access <imageDB> by Remote Client (Shown Icon in Tray Bar)